



TEST REPORT

Applicant: Fujian LANDI Commercial Equipment Co.,Ltd.

Address: Building 17, Section A, Software Park, No. 89 Software Road, Gulou District, Fuzhou Municipality, Fujian Province, China

Product Name: Mobile Terminal

FCC ID: 2AG6N-M20

47 CFR Part 15, Subpart C(15.247)

Standard(s): ANSI C63.10-2013
KDB 558074 D01 15.247 Meas Guidance v05r02

Report Number: 2402Z105148E-RF-00AA1

Report Date: 2025/2/25

The above device has been tested and found compliant with the requirement of the relative standards by Bay Area Compliance Laboratories Corp. (Dongguan).

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	XMDN240206-08120E-RF-00A	Original Report	2024/6/14
2.0	2402Z105148E-RF-00AA1	Class II Permissive Change Report	2025/2/25

1. GENERAL INFORMATION

1.1 General Description of Equipment under Test

EUT Name:	Mobile Terminal
EUT Model:	M20SE
Operation Frequency:	2402-2480 MHz
Maximum Peak Output Power (Conducted) ▲:	10.48dBm
Modulation Type:	GFSK, π/4-DQPSK, 8DPSK
Rated Input Voltage:	5Vdc from Adapter or 7.7Vdc from battery
Serial Number:	2UEW-24 (For RF Conducted Test: Configuration 3#) 2UEW-22 (For RF Conducted Test: Configuration 4#) 2UEW-21 (For RF Conducted Test: Configuration 5#) 2UEW-36 (For Radiated spurious emission and AC line conducted emission tests: Configuration 3#) 2UEW-35 (For Radiated spurious emission and AC line conducted emission tests: Configuration 4#) 2UEW-7 (For Radiated spurious emission and AC line conducted emission tests: Configuration 5#)
EUT Received Date:	2024/11/19
EUT Received Status:	Good

Note :

The multiple models are electrically identical with the test model. Please refer to the declaration letter for more detail, which was provided by manufacturer.

1.2 Accessory Information

Configuration Information:

Configuration	HVIN	Scanning camera (LD47)	Scanning camera (N5703) (old)
3#	M20SES1	×	√
4#	M20SES0	×	×
5#	M20SES2	√	×

Battery Information:

Battery No.	Manufacturer	Model	Parameters
1#	HuiZhou Ganfeng LiEnergy Battery Technology Co.,LTD.	526265-2S (2ICP6/62/65)	DC 7.7V 3550mAh/27.34Wh
2#	SCUD(Fujian)Electronics Co.,LTD	526266-2S (2ICP6/62/66)	DC 7.7V 3620mAh/27.874Wh

Adapter Information:

Adapter No.	Manufacturer	Model	Parameters
1#	Something High Electric (Xiamen) Company Inc.	P12GUSB050200	Input: 100-240Vac~50/60Hz 0.3A Output: 5.0Vdc,2.0A
2#	SHENZHEN KEYU POWER SUPPLY TECHNOLOGY CO., LTD	KA1602-0502000DEU	Input: 100-240Vac~50/60Hz 0.35A Output: 5.0Vdc 2.0A,10W

1.3 Antenna Information Detail▲

Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
FPC	50	2.4-2.5GHz	-1.5dBi
The design of compliance with §15.203:			
<input checked="" type="checkbox"/> Unit uses a permanently attached antenna.			
<input type="checkbox"/> Unit uses a unique coupling to the intentional radiator.			
<input type="checkbox"/> Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.			

1.4 Equipment Modifications

No modifications are made to the EUT during all test items.

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.207(a)	AC Line Conducted Emissions	Compliant
FCC §15.205, §15.209, §15.247(d)	Radiated Spurious Emissions	Compliant
FCC §15.247(a)(1)	20 dB Emission Bandwidth	Compliant*
FCC §15.247(a)(1)	Channel Separation	Compliant*
FCC §15.247(a)(1)(iii)	Number Of Hopping Frequency	Compliant*
FCC §15.247(a)(1)(iii)	Time Of Occupancy (dwell time)	Compliant*
FCC §15.247(b)(1)	Maximum Conducted Output Power	Reporting
FCC §15.247(d)	100 kHz Bandwidth Of Frequency Band Edge	Compliant*
FCC §15.203	Antenna Requirement	Compliant

Purpose:

This is Class II permissive change application based on the original device, model: M20,M20SE, FCC ID: 2AG6N-M20, please refer to report No.: XMDN240206-08120E-RF-00A, issued on 2024/6/14. Differences between the previous device and the current one are stated and guaranteed by the manufacturer, as following:

1. Model M20SE added a scanning camera (model: LD47).
2. Model M20SE Changed BT/WIFI/GPS and WWAN Main Antenna.

The Bay Area Compliance Laboratories Corp.(Dongguan) is responsible for all the information provided in this report, except when information is provided by the customer as identified in this report.

Note 1: For AC line conducted emissions, the maximum output power mode and channel was tested.

Note 2: For Radiated Spurious Emissions 9kHz~ 1GHz and 18-25GHz, the maximum output power mode and channel was tested.

Note 3: Per original report, Powered by Adapter #1 and Battery #1 was the worst for AC Line Conducted Emissions and Radiated Spurious Emissions Below 1GHz, so only performed it.

Note 4:

Compliant*: The change of the EUT does not affect the test result, the test result please refer to original report NO.: XMDN240206-08120E-RF-00A.

3. DESCRIPTION OF TEST CONFIGURATION

3.1 Operation Frequency Detail

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	40	2442
1	2404	41	2443
...
...
...	...	78	2480
39	2441	/	/

Note: The above frequencies in bold were performed the test.

3.2 EUT Operation Condition

The system was configured for testing in Engineering Mode, which was provided by the manufacturer. The following summary table is showing all test modes to demonstrate in compliance with the standard:

Test Items	Test Modes
AC Line Conducted Emission:	M1: Transmitting& Configuration5#
	M2: Transmitting& Configuration4#
	M3: Transmitting& Configuration3#
Radiated Spurious Emission:	M1: Transmitting& Configuration5#
	M2: Transmitting& Configuration4#
	M3: Transmitting& Configuration3#

3.3 EUT Exercise Software

EUT Exercise Software: QRCT4			
The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer▲ :			
Test Modes		Power Level Setting	
		Lowest Channel	Middle Channel
GFSK		9	9
$\pi/4$ -DQPSK		9	9
8DPSK		9	9

3.4 Support Equipment List and Details

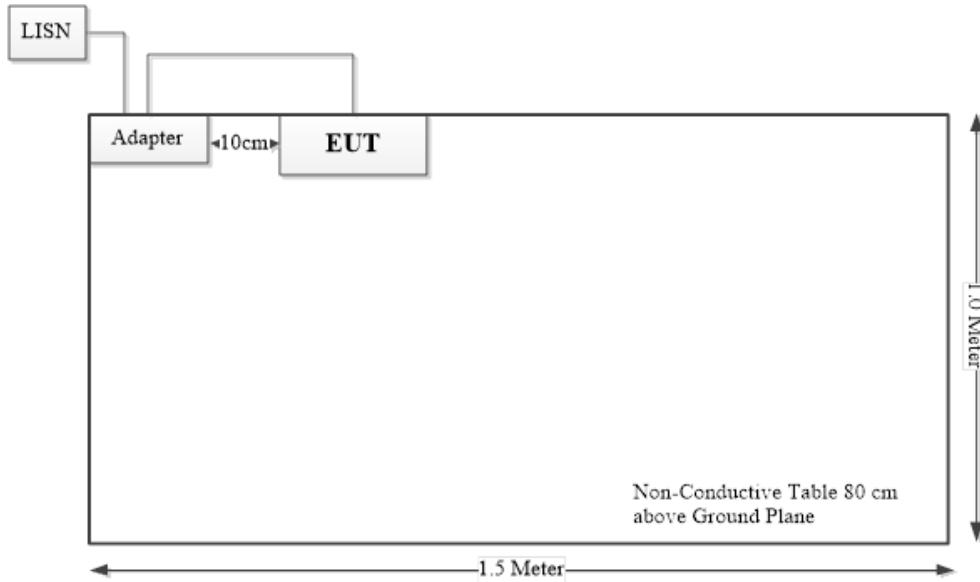
Manufacturer	Description	Model	Serial Number
/	/	/	/

3.5 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	No	No	1	Adapter	EUT

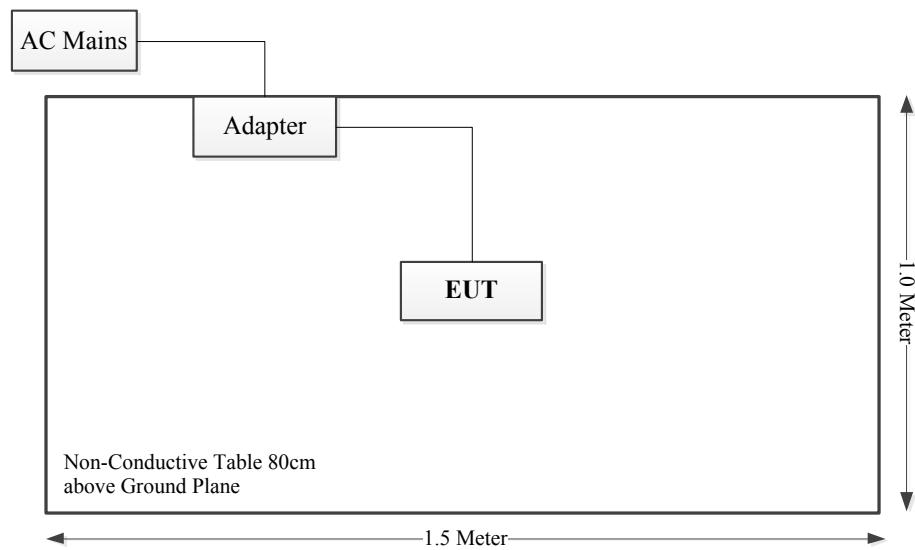
3.6 Block Diagram of Test Setup

AC line conducted emissions:

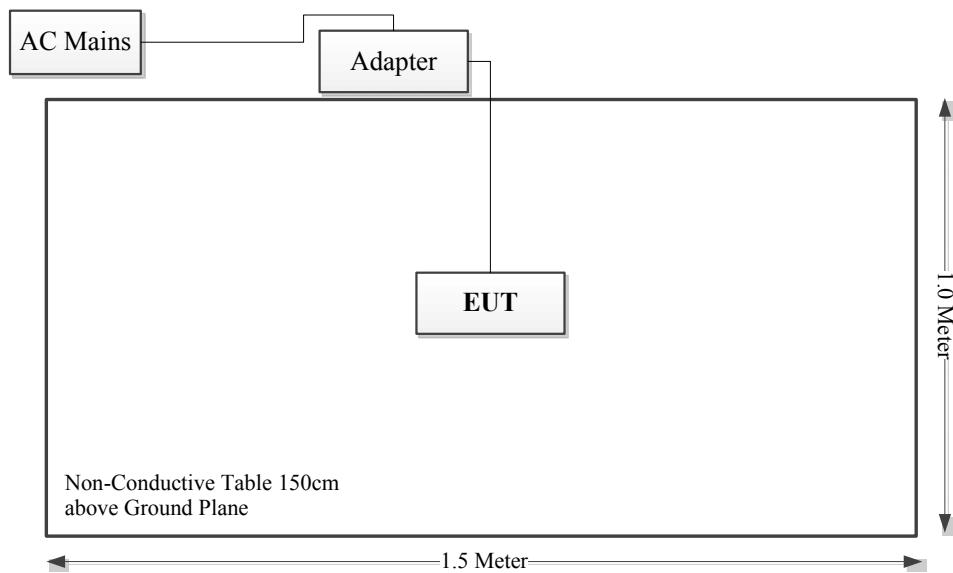


Spurious Emissions:

Below 1GHz:



Above 1GHz:



3.7 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 829273, the FCC Designation No. : CN5044.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

3.8 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	9kHz~30MHz: 3.3dB, 30MHz~200MHz: 4.55 dB, 200MHz~1GHz: 5.92 dB, 1GHz~6GHz: 4.98 dB, 6GHz~18GHz: 5.89 dB, 18GHz~26.5GHz: 5.47 dB, 26.5GHz~40GHz: 5.63 dB
Unwanted Emissions, conducted	±2.47 dB
Temperature	±1 °C
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	3.11 dB (150 kHz to 30 MHz)

4. REQUIREMENTS AND TEST PROCEDURES

4.1 AC Line Conducted Emissions

4.1.1 Applicable Standard

FCC§15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

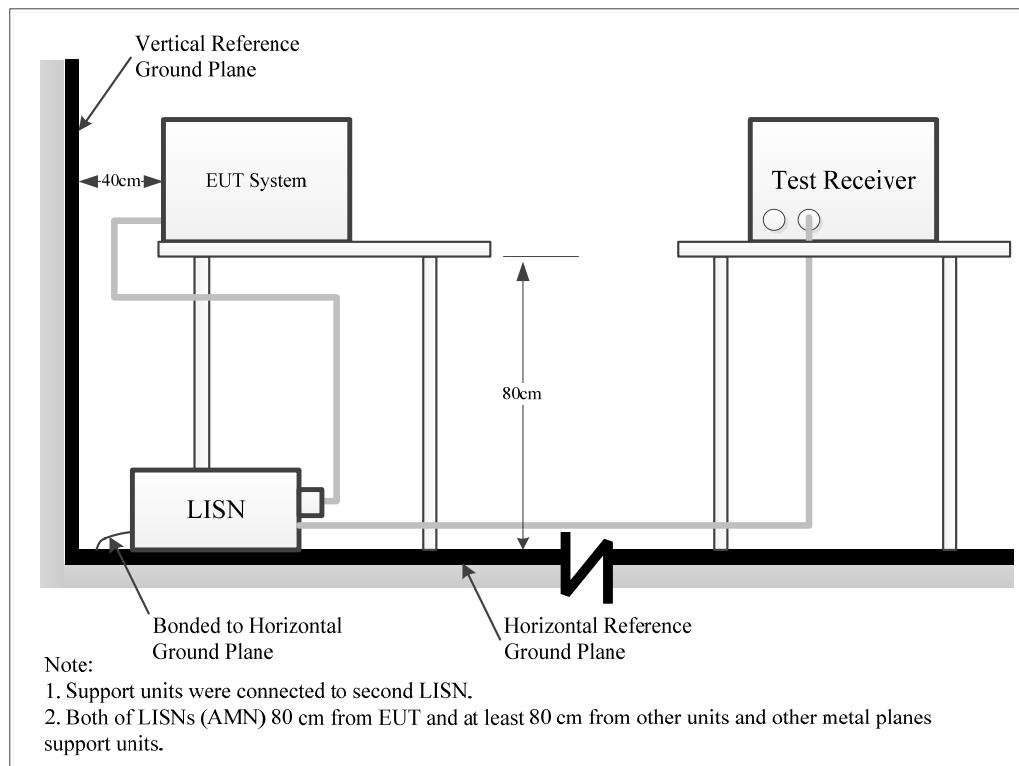
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μ V within the frequency band 535-1705 kHz, as measured using a 50 μ H/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

4.1.2 EUT Setup



The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

4.1.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

4.1.4 Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase (“hot”) line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

4.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = attenuation caused by cable loss + voltage division factor of AMN

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

4.1.6 Test Result

Please refer to section 5.1.

4.2 Radiated Spurious Emissions

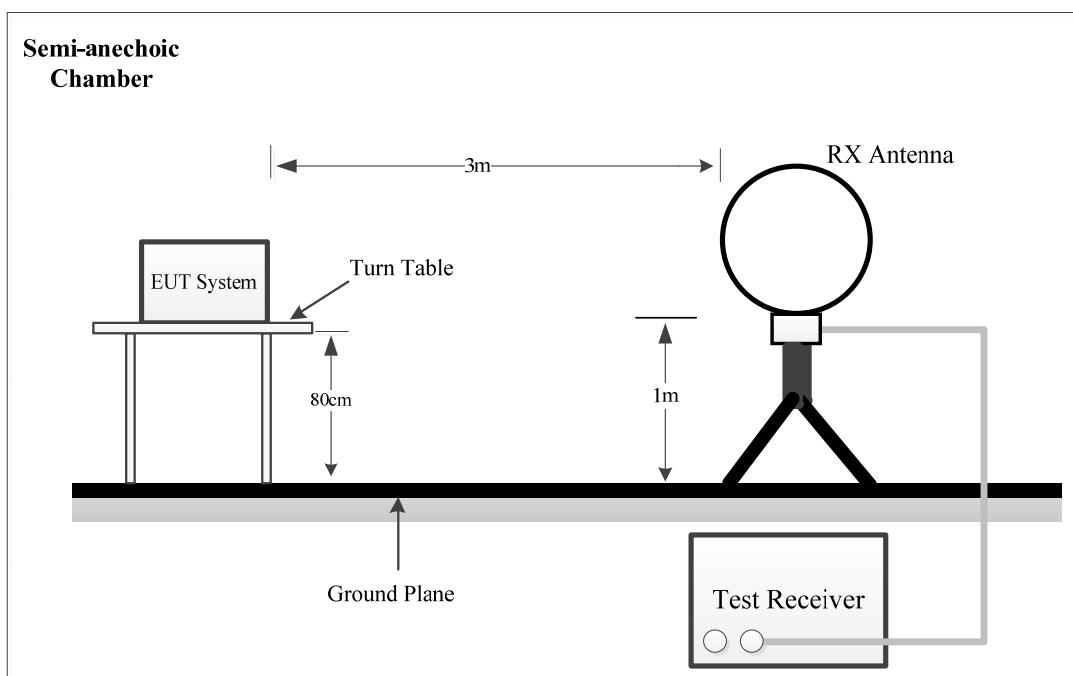
4.2.1 Applicable Standard

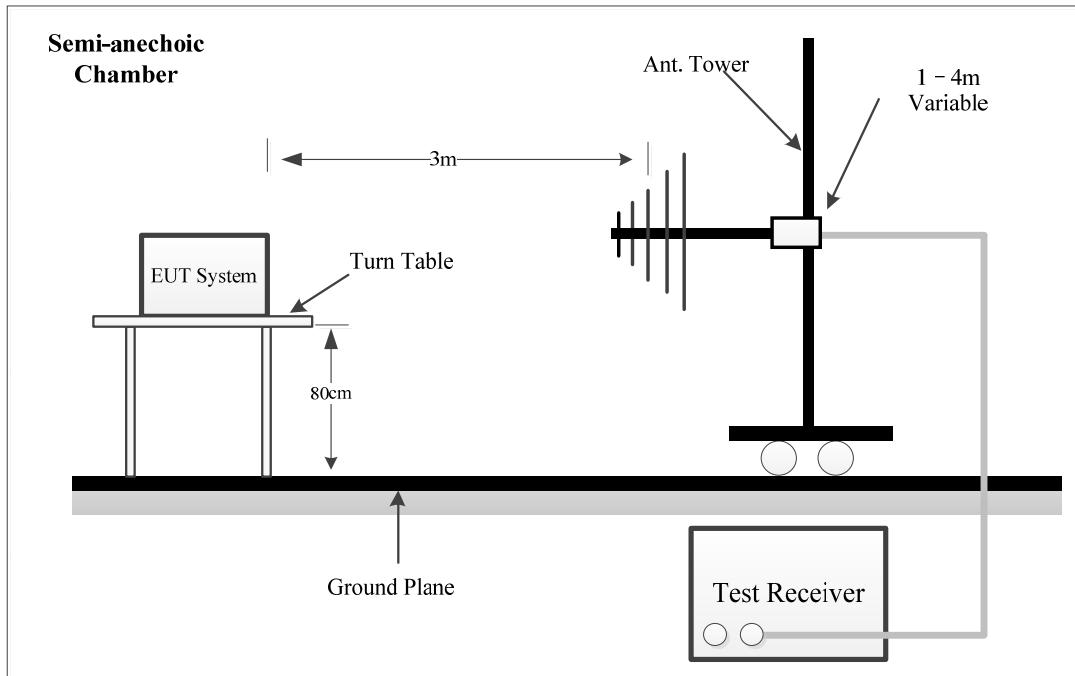
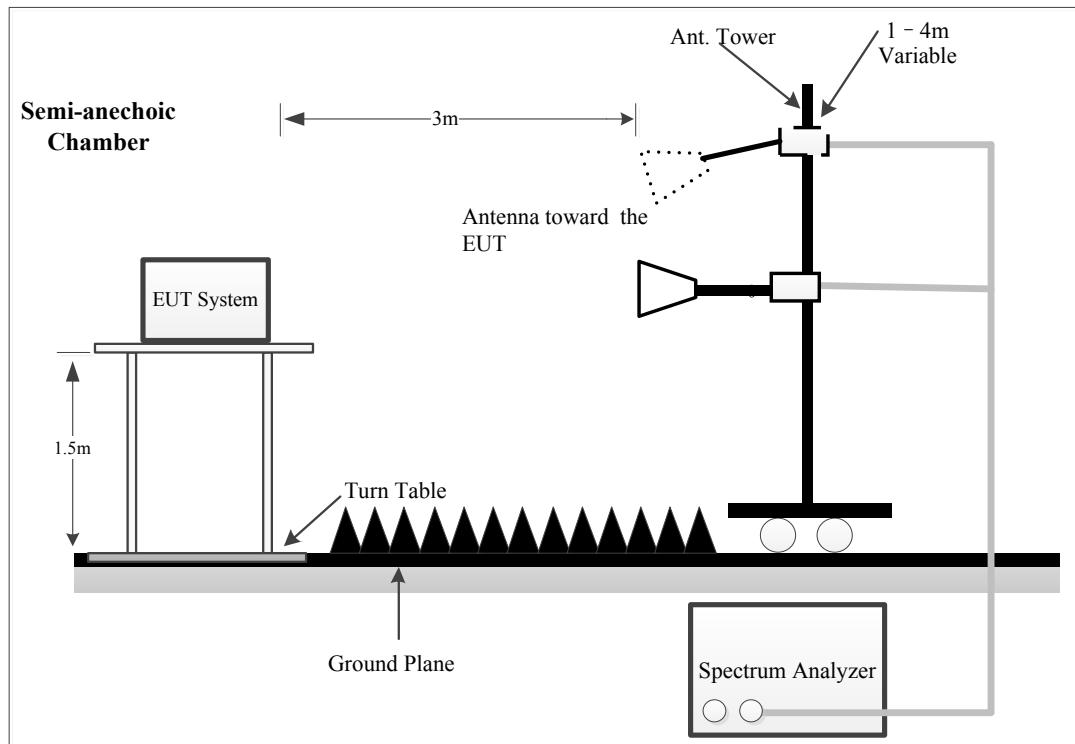
FCC §15.247 (d);

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

4.2.2 EUT Setup

9kHz~30MHz:



30MHz~1GHz:**Above 1GHz:**

The radiated emissions were performed in the 3 meters distance, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

For 9kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

4.2.3 EMI Test Receiver & Spectrum Analyzer Setup

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

9kHz-1000MHz:

Frequency Range	Measurement	RBW	Video B/W	IF B/W	Detector
9 kHz – 150 kHz	QP/AV	300 Hz	1 kHz	200 Hz	QP/AV
150 kHz – 30 MHz	QP/AV	10 kHz	30 kHz	9 kHz	QP/AV
30 MHz – 1000 MHz	PK	100 kHz	300 kHz	/	PK
	QP	/	/	120 kHz	QP

1GHz- 25GHz:

Pre-scan:

Measurement	RBW	Video B/W	Detector
PK	1MHz	3 MHz	PK
Ave.	1MHz	5kHz	PK

Final measurement for emission identified during the pre-scan:

Measurement	RBW	Video B/W	Detector
PK	1MHz	3 MHz	PK
Ave.	1MHz	10 Hz	PK

4.2.4 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 9 kHz-1 GHz except 9-90 kHz, 110-490 kHz, employing an average detector, peak and Average detection modes for frequencies above 1 GHz.

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

All emissions under the average limit and under the noise floor have not recorded in the report.

4.2.5 Corrected Result & Margin Calculation

$$E_{Log} = 20 \times \log_{10}(E_{Linear})$$

E_{Linear} is the field strength of the emission, in μ V/m
 E_{Log} is the field strength of the emission, in dB μ V/m

For 9kHz-30MHz test, test distance is 3m, extrapolation limit shall be calculated using Equation:

$$E_{limit-measure} = E_{limit-Standard} + 40 \times \log_{10} (d_{standard}/d_{measure})$$

The basic equation is as follows:

Result = Reading + Factor

Factor = Antenna Factor + Cable Loss- Amplifier Gain

The “Margin” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Result}$$

4.2.6 Test Result

Please refer to section 5.2.

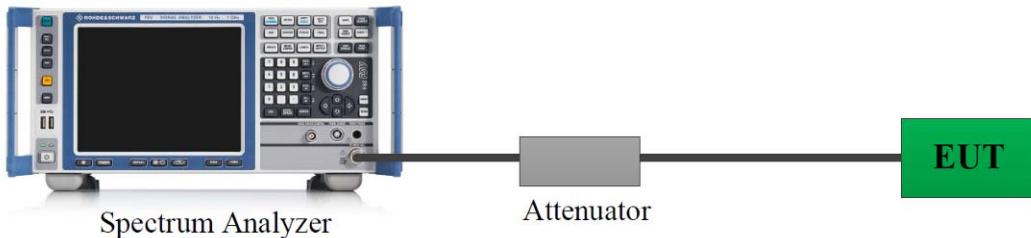
4.3 Maximum Conducted Output Power

4.3.1 Applicable Standard

FCC §15.247 (b)(1)

For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts

4.3.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, which was provided by manufacturer. The insert loss of this RF cable/attenuator was offset into the setting of test equipment.

4.3.3 Test Procedure

According to ANSI C63.10-2013 Section 7.8.5

This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. Offset the Insertion loss of the RF cable, DC Block/ Attenuator into the spectrum analyzer. The hopping shall be disabled for this test:

- a) Use the following spectrum analyzer settings:
 - 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
 - 2) RBW > 20 dB bandwidth of the emission being measured.
 - 3) VBW \geq RBW.
 - 4) Sweep: Auto.
 - 5) Detector function: Peak.
 - 6) Trace: Max hold.
- b) Allow trace to stabilize.
- c) Use the marker-to-peak function to set the marker to the peak of the emission.
- d) The indicated level is the peak output power, after any corrections for external attenuators and cables.
- e) A plot of the test results and setup description shall be included in the test report.

NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer

4.3.4 Test Result

Please refer to section 5.3.

4.4 Antenna Requirement

4.4.1 Applicable Standard

FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

4.4.2 Judgment

Compliant. Please refer to the Antenna Information detail in Section 1.3.

5. TEST DATA AND RESULTS

5.1 AC Line Conducted Emissions

Serial Number:	2UEW-7, 2UEW-35, 2UEW-36	Test Date:	2024/11/22 ~2025/2/19
Test Site:	CE	Test Mode:	M1-M3
Tester:	Yolo Fan, Yukin Qiu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21.3~24.9	Relative Humidity: (%)	49~56	ATM Pressure: (kPa)	101.7~102.1
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101614	2024/9/5	2025/9/4
MICRO-COAX	Coaxial Cable	C-NJNJ-50	C-0200-01	2024/9/5	2025/9/4
R&S	EMI Test Receiver	ESCI	100035	2024/8/26	2025/8/25
Audix	Test Software	E3	191218 V9	N/A	N/A

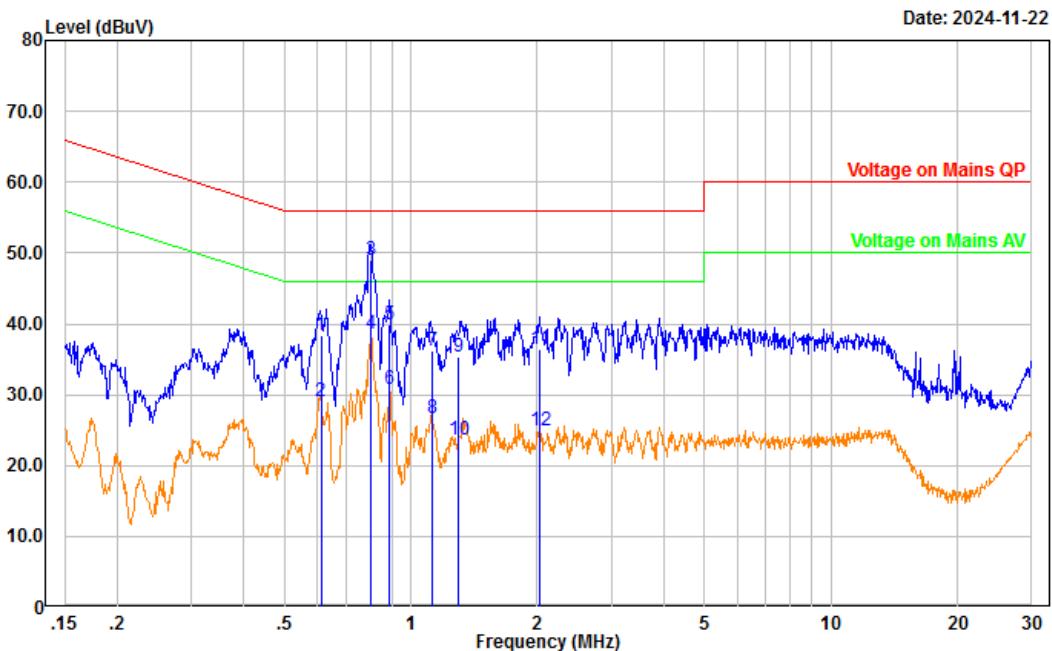
* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Note: The maximum output power mode: GFSK Low channel was tested.

M1:

Project No.: 2402Z105148E-RF-A1
 Port: Line
 Test Mode: Transmitting
 IF B/W 9kHz PK/AV

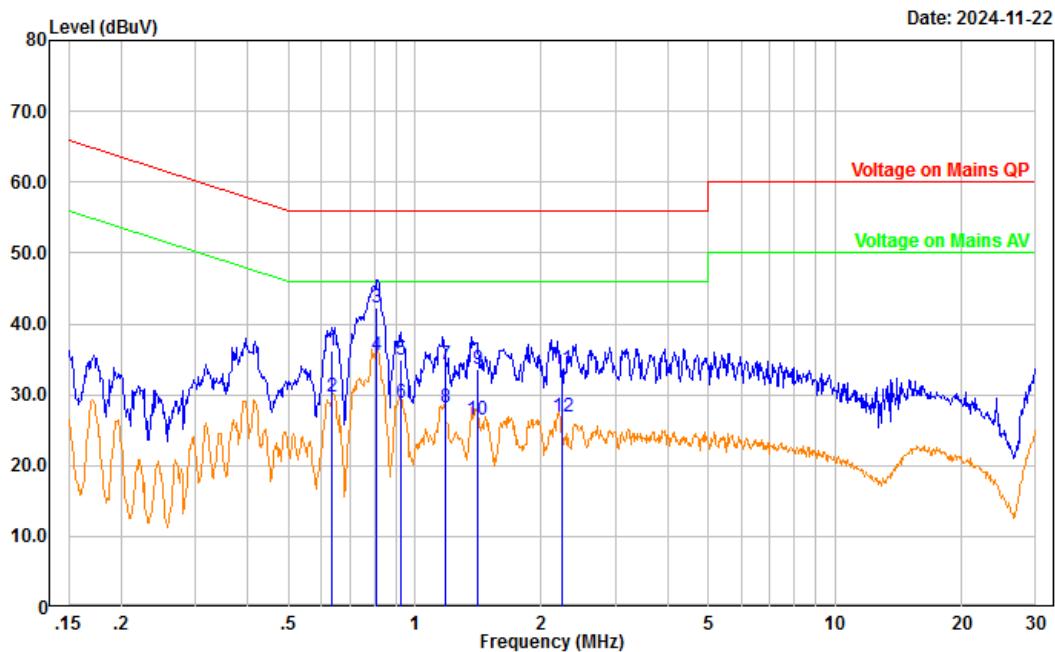
Serial No.: 2UEW-7
 Tester: Yolo Fan



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector
1	0.611	27.63	10.82	38.45	56.00	17.55	QP
2	0.611	18.33	10.82	29.15	46.00	16.85	Average
3	0.803	38.24	10.85	49.09	56.00	6.91	QP
4	0.803	27.67	10.85	38.52	46.00	7.48	Average
5	0.891	28.97	10.86	39.83	56.00	16.17	QP
6	0.891	19.95	10.86	30.81	46.00	15.19	Average
7	1.122	25.31	10.85	36.16	56.00	19.84	QP
8	1.122	15.77	10.85	26.62	46.00	19.38	Average
9	1.301	24.43	10.84	35.27	56.00	20.73	QP
10	1.301	12.80	10.84	23.64	46.00	22.36	Average
11	2.027	25.65	10.82	36.47	56.00	19.53	QP
12	2.027	14.12	10.82	24.94	46.00	21.06	Average

Project No.: 2402Z105148E-RF-A1
Port: neutral
Test Mode: Transmitting
IF B/W 9kHz PK/AV

Serial No.: 2UEW-7
Tester: Yolo Fan

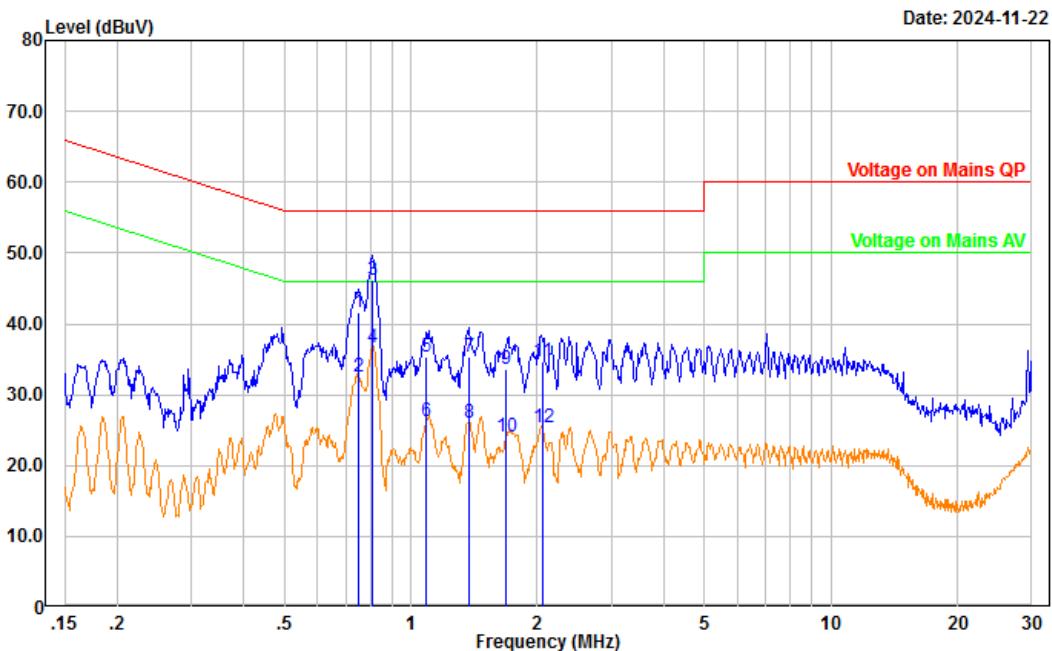


No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector
1	0.634	25.55	10.73	36.28	56.00	19.72	QP
2	0.634	18.95	10.73	29.68	46.00	16.32	Average
3	0.812	31.49	10.79	42.28	56.00	13.72	QP
4	0.812	24.76	10.79	35.55	46.00	10.45	Average
5	0.926	23.98	10.84	34.82	56.00	21.18	QP
6	0.926	17.97	10.84	28.81	46.00	17.19	Average
7	1.183	23.45	10.86	34.31	56.00	21.69	QP
8	1.183	17.39	10.86	28.25	46.00	17.75	Average
9	1.406	22.79	10.88	33.67	56.00	22.33	QP
10	1.406	15.67	10.88	26.55	46.00	19.45	Average
11	2.239	22.74	10.91	33.65	56.00	22.35	QP
12	2.239	16.03	10.91	26.94	46.00	19.06	Average

M2:

Project No.: 2402Z105148E-RF-A1
 Port: Line
 Test Mode: Transmitting
 IF B/W 9kHz PK/AV

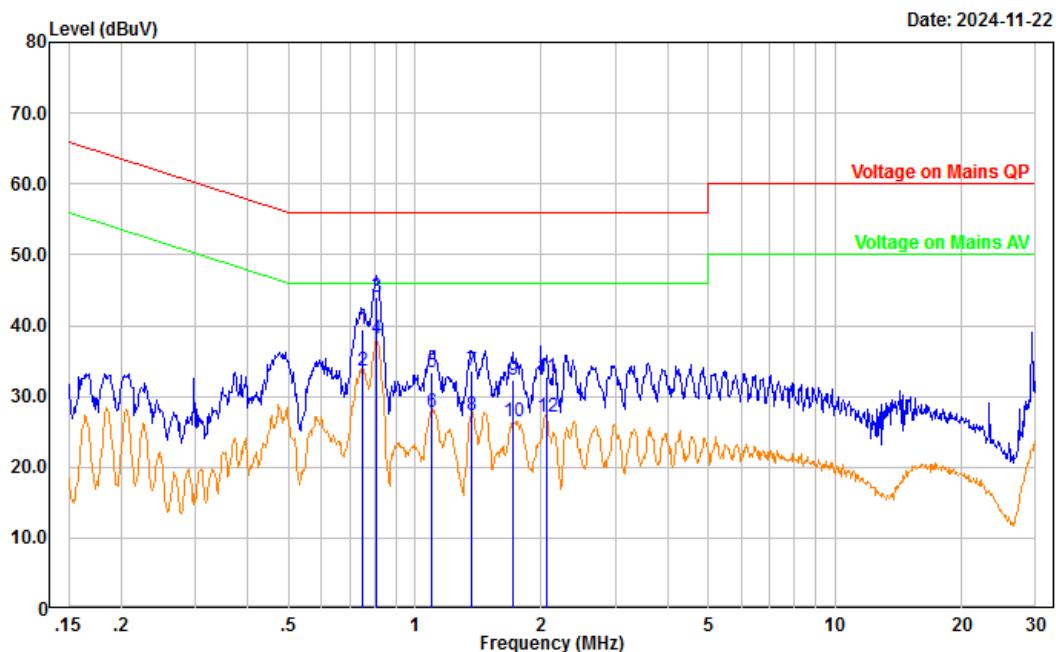
Serial No.: 2UEW-35
 Tester: Yolo Fan



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector
1	0.749	30.82	10.86	41.68	56.00	14.32	QP
2	0.749	21.57	10.86	32.43	46.00	13.57	Average
3	0.811	35.33	10.85	46.18	56.00	9.82	QP
4	0.811	25.79	10.85	36.64	46.00	9.36	Average
5	1.091	24.44	10.85	35.29	56.00	20.71	QP
6	1.091	15.45	10.85	26.30	46.00	19.70	Average
7	1.371	24.50	10.84	35.34	56.00	20.66	QP
8	1.371	15.21	10.84	26.05	46.00	19.95	Average
9	1.688	22.86	10.83	33.69	56.00	22.31	QP
10	1.688	13.26	10.83	24.09	46.00	21.91	Average
11	2.062	23.85	10.82	34.67	56.00	21.33	QP
12	2.062	14.65	10.82	25.47	46.00	20.53	Average

Project No.: 2402Z105148E-RF-A1
 Port: neutral
 Test Mode: Transmitting
 IF B/W 9kHz PK/AV

Serial No.: 2UEW-35
 Tester: Yolo Fan

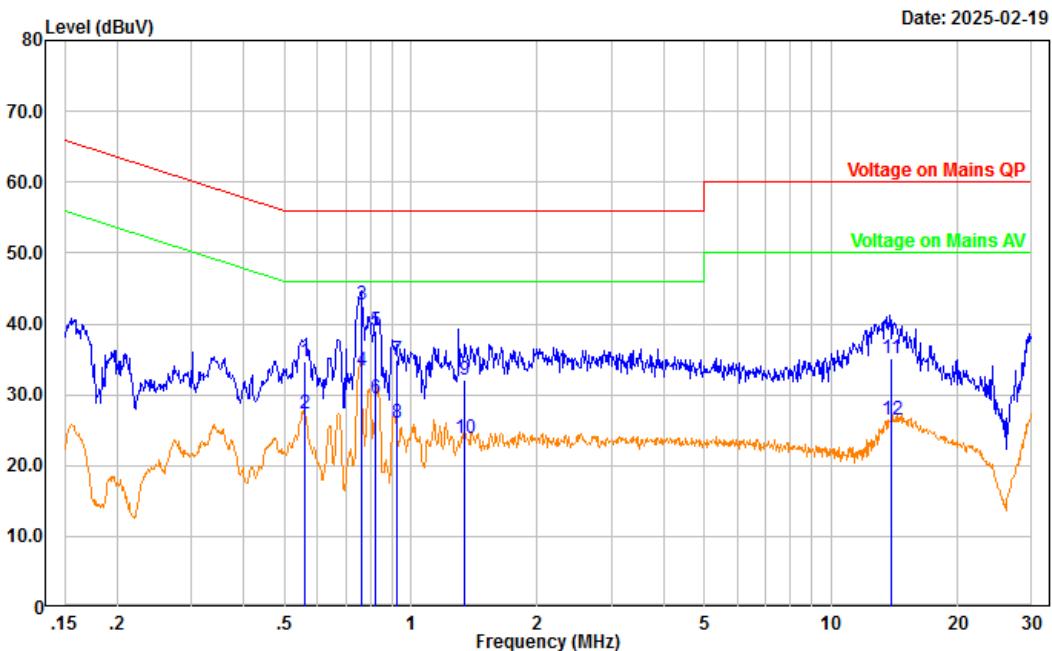


No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector
1	0.750	28.77	10.78	39.55	56.00	16.45	QP
2	0.750	22.83	10.78	33.61	46.00	12.39	Average
3	0.813	33.20	10.79	43.99	56.00	12.01	QP
4	0.813	27.26	10.79	38.05	46.00	7.95	Average
5	1.096	22.61	10.86	33.47	56.00	22.53	QP
6	1.096	16.97	10.86	27.83	46.00	18.17	Average
7	1.365	22.67	10.88	33.55	56.00	22.45	QP
8	1.365	16.45	10.88	27.33	46.00	18.67	Average
9	1.712	21.32	10.90	32.22	56.00	23.78	QP
10	1.712	15.50	10.90	26.40	46.00	19.60	Average
11	2.055	21.88	10.92	32.80	56.00	23.20	QP
12	2.055	16.11	10.92	27.03	46.00	18.97	Average

M3:

Project No.: 2402Z105148E-RF-A1
 Port: Line
 Test Mode: Transmitting
 IF B/W 9kHz PK/AV

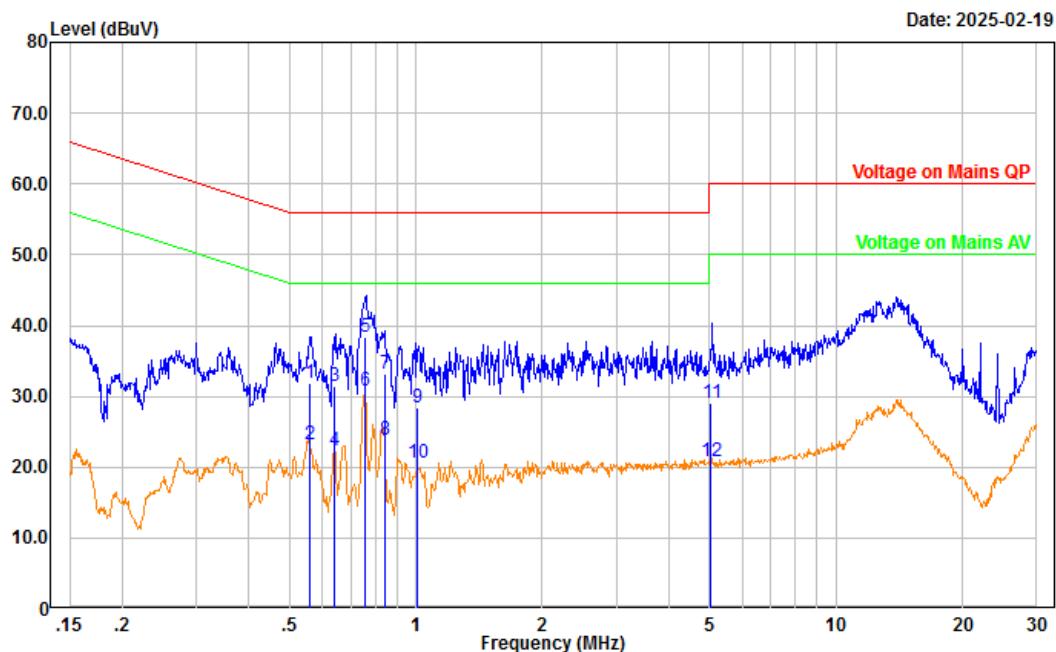
Serial No.: 2UEW-36
 Tester: Yukin Qiu



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector
1	0.558	23.94	10.83	34.77	56.00	21.23	QP
2	0.558	16.45	10.83	27.28	46.00	18.72	Average
3	0.762	31.86	10.85	42.71	56.00	13.29	QP
4	0.762	22.60	10.85	33.45	46.00	12.55	Average
5	0.825	28.08	10.85	38.93	56.00	17.07	QP
6	0.825	18.60	10.85	29.45	46.00	16.55	Average
7	0.926	23.96	10.86	34.82	56.00	21.18	QP
8	0.926	15.15	10.86	26.01	46.00	19.99	Average
9	1.337	21.22	10.84	32.06	56.00	23.94	QP
10	1.337	13.06	10.84	23.90	46.00	22.10	Average
11	13.895	24.34	10.84	35.18	60.00	24.82	QP
12	13.895	15.65	10.84	26.49	50.00	23.51	Average

Project No.: 2402Z105148E-RF-A1
 Port: neutral
 Test Mode: Transmitting
 IF B/W 9kHz PK/AV

Serial No.: 2UEW-36
 Tester: Yukin Qiu



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector
1	0.561	21.23	10.73	31.96	56.00	24.04	QP
2	0.561	12.43	10.73	23.16	46.00	22.84	Average
3	0.642	20.72	10.74	31.46	56.00	24.54	QP
4	0.642	11.62	10.74	22.36	46.00	23.64	Average
5	0.758	27.59	10.77	38.36	56.00	17.64	QP
6	0.758	20.03	10.77	30.80	46.00	15.20	Average
7	0.842	22.42	10.80	33.22	56.00	22.78	QP
8	0.842	13.01	10.80	23.81	46.00	22.19	Average
9	1.011	17.51	10.85	28.36	56.00	27.64	QP
10	1.011	9.70	10.85	20.55	46.00	25.45	Average
11	5.036	18.15	10.84	28.99	60.00	31.01	QP
12	5.036	9.95	10.84	20.79	50.00	29.21	Average

5.2 Radiated Spurious Emissions

1) 9kHz - 1GHz

Serial Number:	2UEW-7, 2UEW-35, 2UEW-36	Test Date:	2024/12/2~2025/2/21
Test Site:	Chamber A	Test Mode:	M1-M3
Tester:	Alan Xie	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21.8-22.9	Relative Humidity: (%)	30-49	ATM Pressure: (kPa)	101.6
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
EMCO	Passive Loop Antenna	6512	9706-1206	2023/10/25	2026/10/24
Sunol Sciences	Hybrid Antenna	JB3	A060611-2	2024/4/16	2027/4/15
Narda	Coaxial Attenuator	757C-6dB	34010	2024/4/16	2027/4/15
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2024/7/1	2025/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2024/7/1	2025/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2024/7/1	2025/6/30
Sonoma	Amplifier	310N	372193	2024/8/16	2025/8/15
R&S	EMI Test Receiver	ESR3	102453	2024/8/26	2025/8/25
Audix	Test Software	E3	191218 V9	N/A	N/A

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Please refer to the below plots.

After pre-scan in the X, Y and Z axes of orientation, the worst case is refer to plots.

Note: The maximum output power mode: GFSK Low channel was tested.

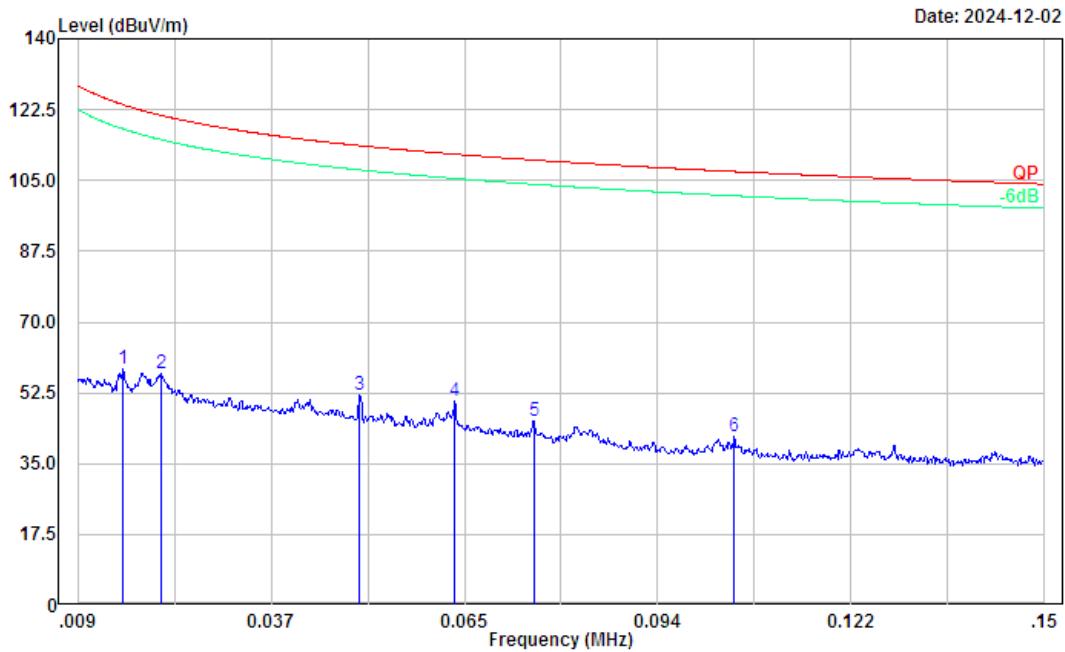
9kHz~30MHz

Three antenna orientations (parallel, perpendicular, and ground-parallel) was measured, the worst orientations was below:

M1:

Project No.: 2402Z105148E-RF-A1
 Polarization: Parallel
 Test Mode: Transmitting
 Note: M1
 : RBW:300Hz VBW:1kHz

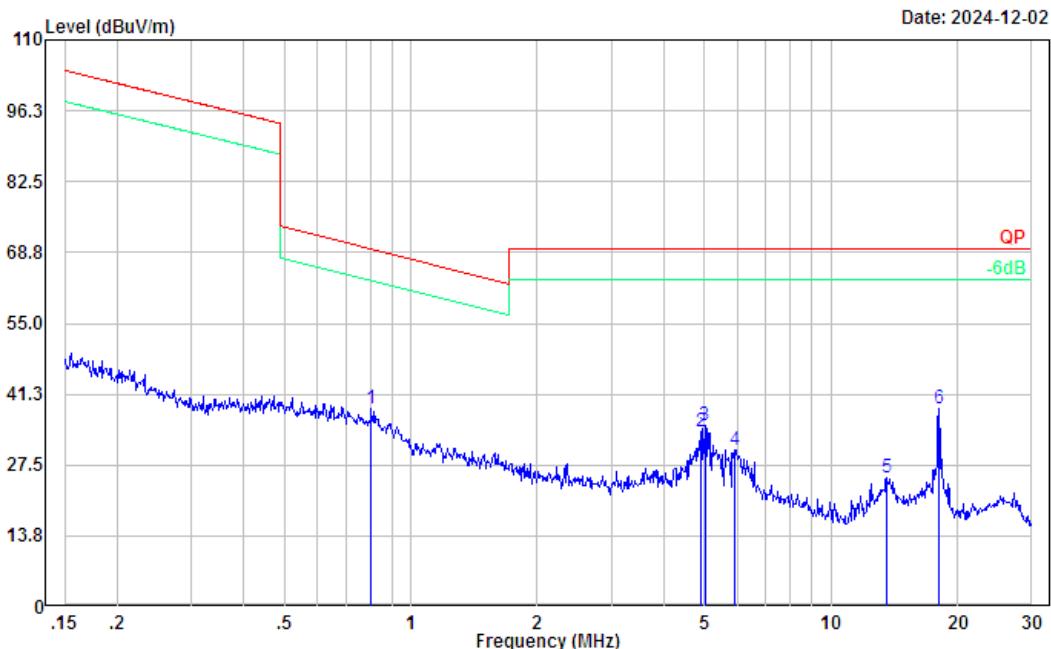
Serial No.: 2UEW-7
 Tester: Alan Xie



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	0.016	8.26	50.12	58.38	123.73	65.35	Peak
2	0.021	8.54	48.72	57.26	121.05	63.79	Peak
3	0.050	8.69	43.41	52.10	113.60	61.50	Peak
4	0.064	9.24	41.15	50.39	111.48	61.09	Peak
5	0.076	6.47	39.17	45.64	110.04	64.40	Peak
6	0.105	6.83	34.76	41.59	107.20	65.61	Peak

Project No.: 2402Z105148E-RF-A1
Polarization: Parallel
Test Mode: Transmitting
Note: M1
: RBW:10kHz VBW:30kHz

Serial No.: 2UEW-7
Tester: Alan Xie

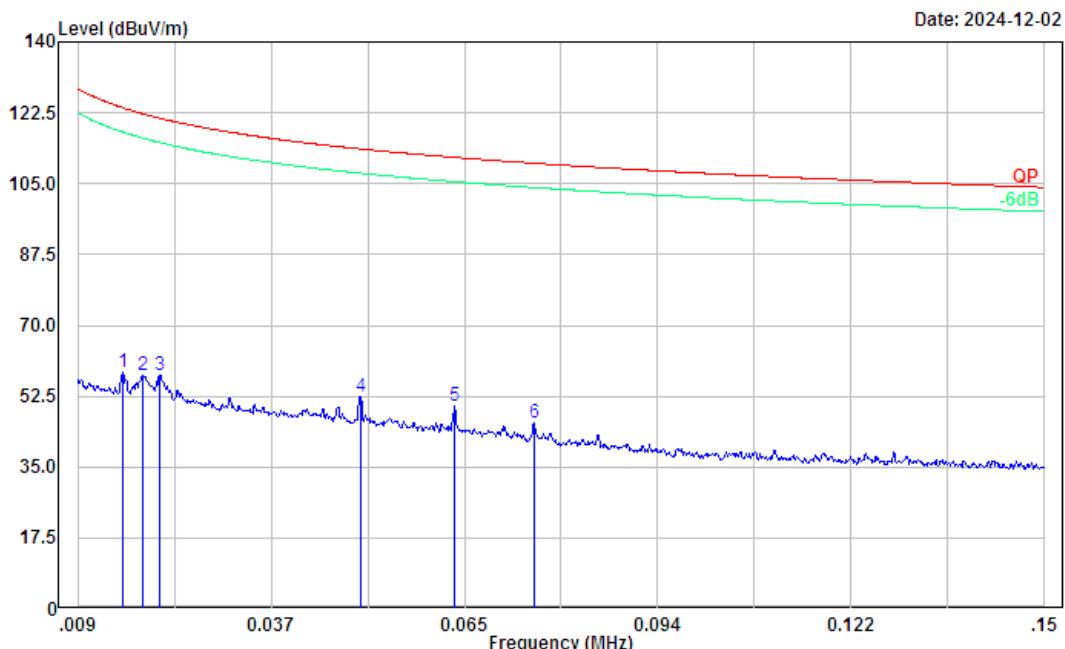


No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	0.804	18.98	19.60	38.58	69.40	30.82	Peak
2	4.900	28.10	5.84	33.94	69.54	35.60	Peak
3	5.005	29.61	5.70	35.31	69.54	34.23	Peak
4	5.898	25.36	5.11	30.47	69.54	39.07	Peak
5	13.551	20.97	3.97	24.94	69.54	44.60	Peak
6	18.039	34.56	3.78	38.34	69.54	31.20	Peak

M2:

Project No.: 2402Z105148E-RF-A1
Polarization: Parallel
Test Mode: Transmitting
Note: M2
: RBW:300Hz VBW:1kHz

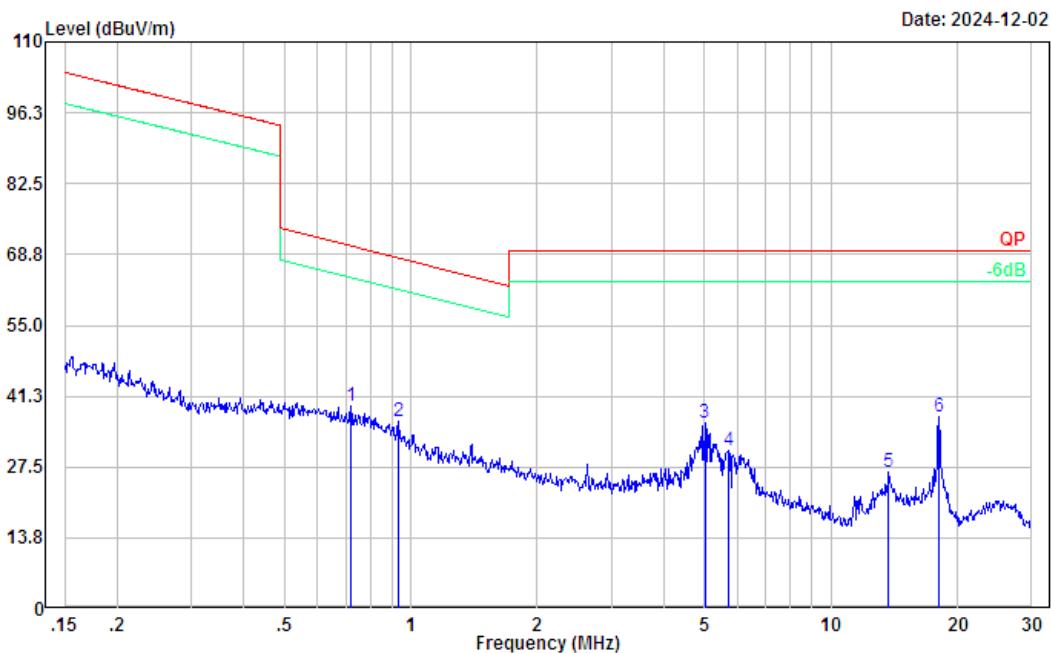
Serial No.: 2UEW-35
Tester: Alan Xie



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	0.016	8.28	50.12	58.40	123.73	65.33	Peak
2	0.018	8.23	49.40	57.63	122.29	64.66	Peak
3	0.021	8.85	48.77	57.62	121.17	63.55	Peak
4	0.050	9.02	43.39	52.41	113.57	61.16	Peak
5	0.064	8.79	41.15	49.94	111.48	61.54	Peak
6	0.076	6.83	39.17	46.00	110.04	64.04	Peak

Project No.: 2402Z105148E-RF-A1
Polarization: Parallel
Test Mode: Transmitting
Note: M2
: RBW:10kHz VBW:30kHz

Serial No.: 2UEW-35
Tester: Alan Xie

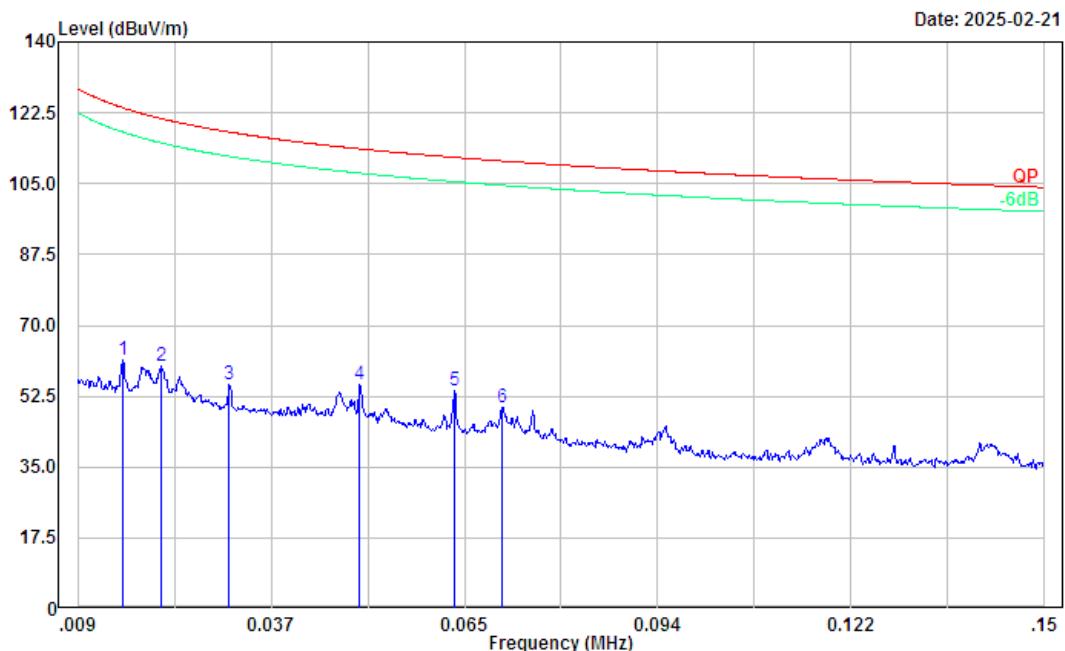


No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	0.720	18.93	20.46	39.39	70.39	31.00	Peak
2	0.933	19.08	17.26	36.34	68.09	31.75	Peak
3	5.005	30.43	5.70	36.13	69.54	33.41	Peak
4	5.683	25.47	5.25	30.72	69.54	38.82	Peak
5	13.695	22.53	4.04	26.57	69.54	42.97	Peak
6	18.039	33.41	3.78	37.19	69.54	32.35	Peak

M3:

Project No.: 2402Z105148E-RF-A1
Polarization: Parallel
Test Mode: Transmitting
Note: M3
: RBW:300Hz VBW:1kHz

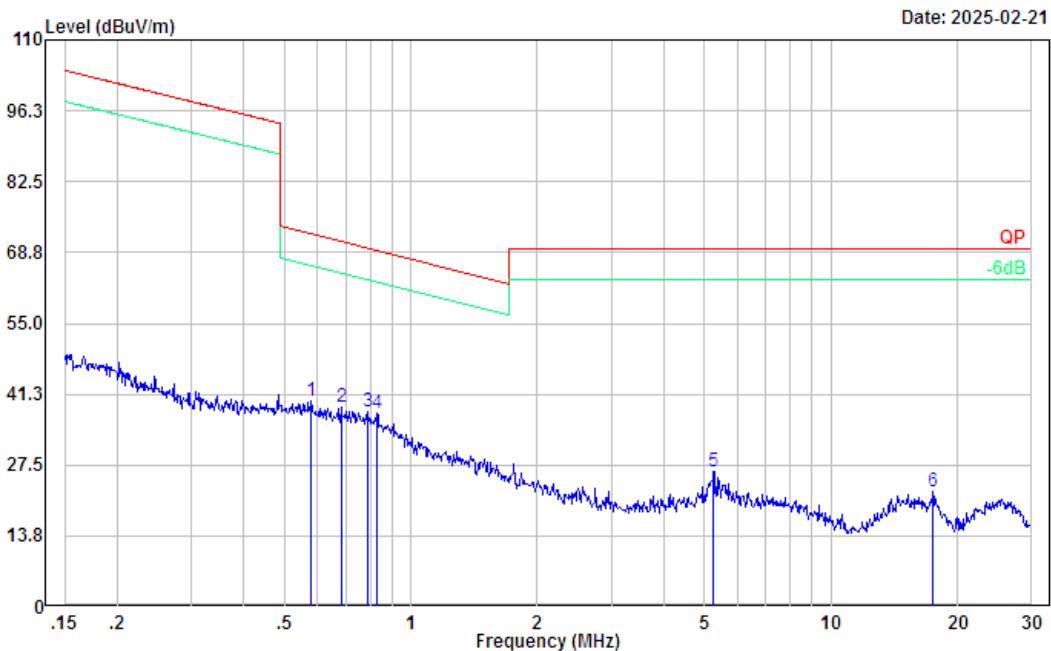
Serial No.: 2UEW-36
Tester: Alan Xie



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	0.016	11.49	50.12	61.61	123.73	62.12	Peak
2	0.021	11.40	48.72	60.12	121.05	60.93	Peak
3	0.031	8.83	46.54	55.37	117.74	62.37	Peak
4	0.050	11.86	43.41	55.27	113.60	58.33	Peak
5	0.064	12.79	41.15	53.94	111.48	57.54	Peak
6	0.071	9.71	40.01	49.72	110.59	60.87	Peak

Project No.: 2402Z105148E-RF-A1
Polarization: Parallel
Test Mode: Transmitting
Note: M3
: RBW:10kHz VBW:30kHz

Serial No.: 2UEW-36
Tester: Alan Xie

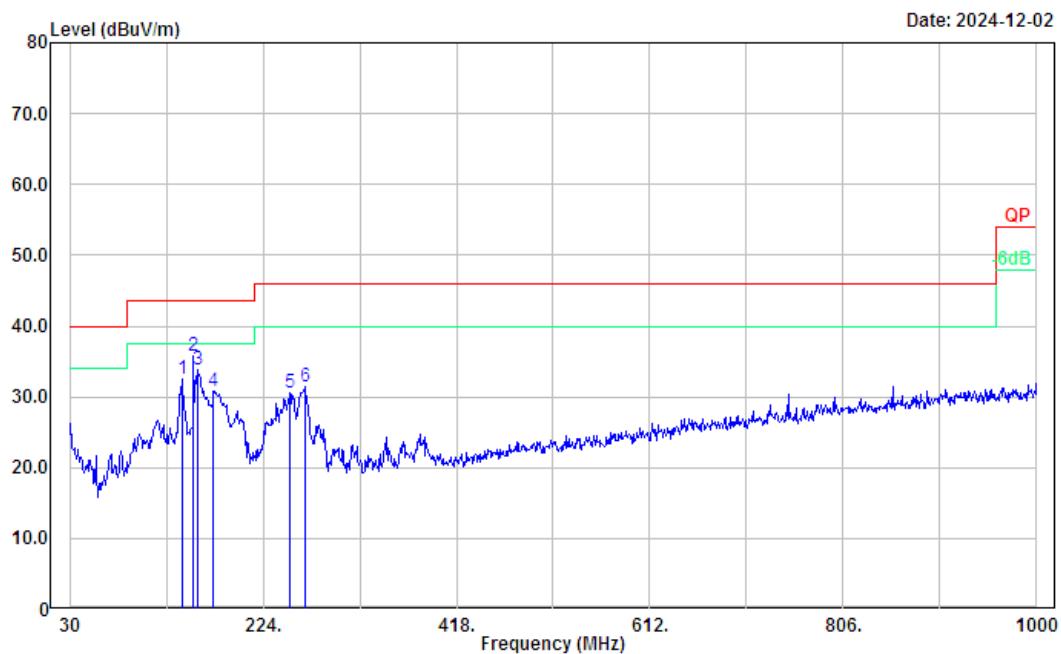


No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	0.579	18.05	22.02	40.07	72.32	32.25	Peak
2	0.683	17.84	20.86	38.70	70.86	32.16	Peak
3	0.788	18.07	19.80	37.87	69.59	31.72	Peak
4	0.830	18.27	19.19	37.46	69.12	31.66	Peak
5	5.249	20.79	5.53	26.32	69.54	43.22	Peak
6	17.475	18.49	3.79	22.28	69.54	47.26	Peak

30MHz-1GHz**M1:**

Project No.: 2402Z105148E-RF-A1
Polarization: Horizontal
Test Mode: Transmitting
Note: M1
: RBW:100kHz VBW:300kHz

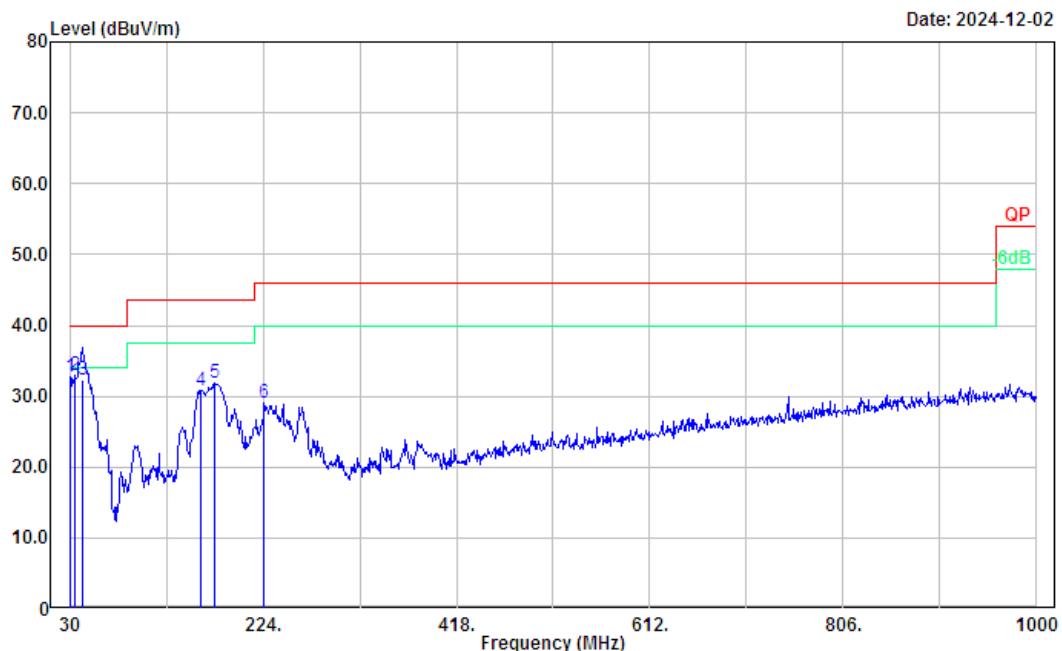
Serial No.: 2UEW-7
Tester: Alan Xie



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	142.52	43.38	-10.93	32.45	43.50	11.05	Peak
2	154.16	47.21	-11.49	35.72	43.50	7.78	Peak
3	158.04	45.20	-11.46	33.74	43.50	9.76	Peak
4	174.53	42.65	-11.95	30.70	43.50	12.80	Peak
5	250.19	41.82	-11.27	30.55	46.00	15.45	Peak
6	265.71	42.05	-10.59	31.46	46.00	14.54	Peak

Project No.: 2402Z105148E-RF-A1
Polarization: Vertical
Test Mode: Transmitting
Note: M1
: RBW:100kHz VBV:300kHz

Serial No.: 2UEW-7
Tester: Alan Xie

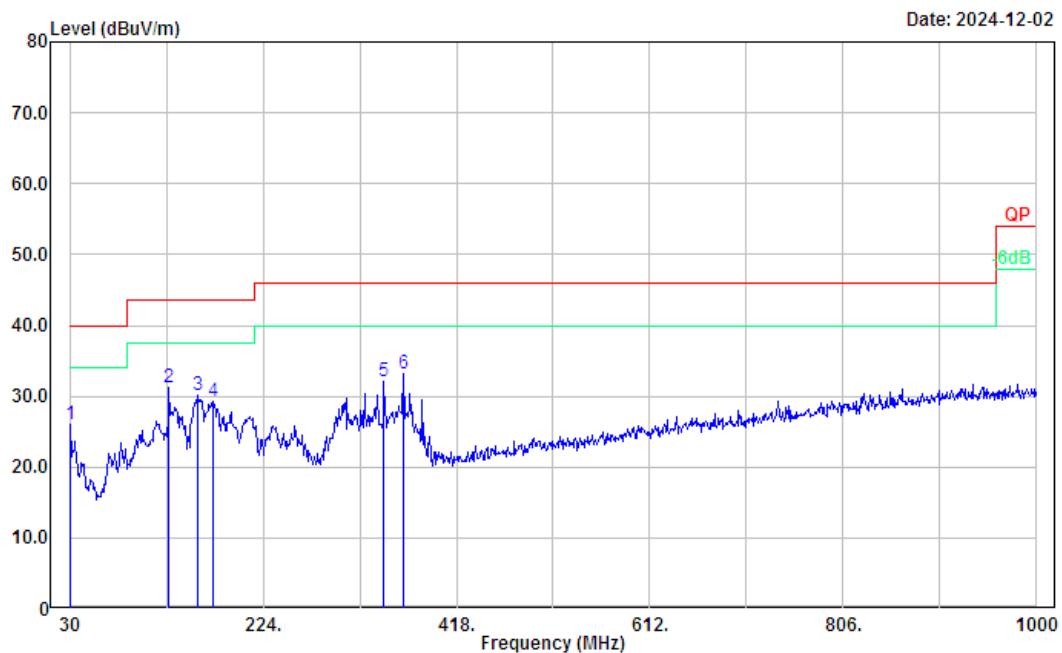


No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	30.97	37.18	-4.37	32.81	40.00	7.19	Peak
2	35.82	40.62	-7.67	32.95	40.00	7.05	Peak
3	42.61	44.34	-12.03	32.31	40.00	7.69	QP
4	161.92	42.37	-11.51	30.86	43.50	12.64	Peak
5	175.50	43.83	-11.99	31.84	43.50	11.66	Peak
6	224.97	40.02	-11.02	29.00	46.00	17.00	Peak

M2:

Project No.: 2402Z105148E-RF-A1
Polarization: Horizontal
Test Mode: Transmitting
Note: M2
: RBW:100kHz VBF:300kHz

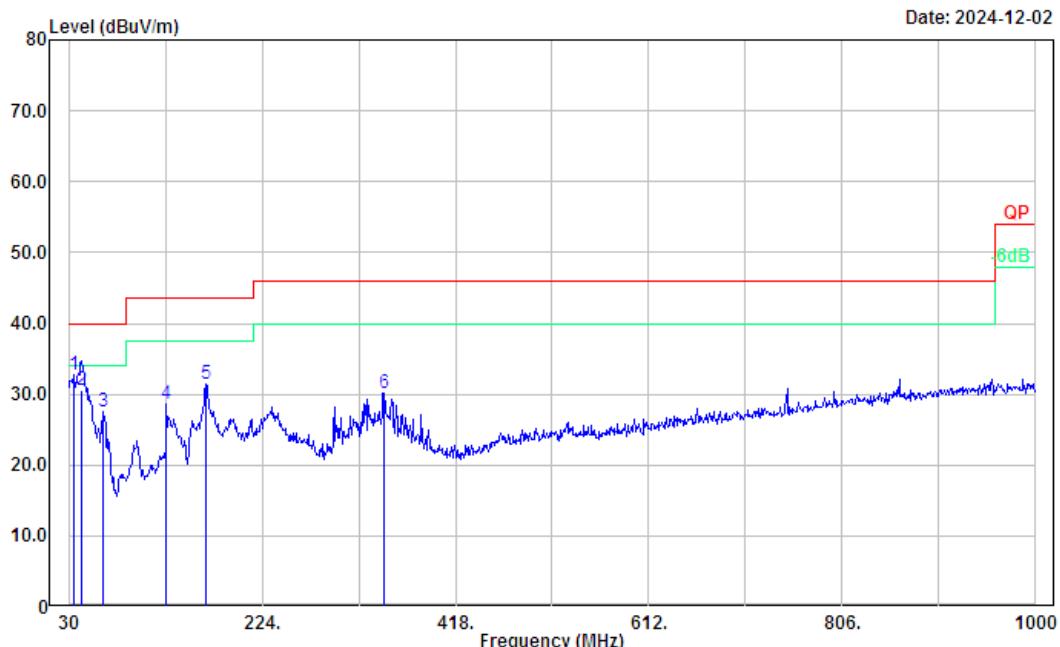
Serial No.: 2UEW-35
Tester: Alan Xie



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	30.00	29.67	-3.71	25.96	40.00	14.04	Peak
2	129.91	41.13	-9.99	31.14	43.50	12.36	Peak
3	158.04	41.61	-11.46	30.15	43.50	13.35	Peak
4	174.53	41.28	-11.95	29.33	43.50	14.17	Peak
5	345.25	40.11	-8.04	32.07	46.00	13.93	Peak
6	364.65	40.74	-7.65	33.09	46.00	12.91	Peak

Project No.: 2402Z105148E-RF-A1
Polarization: Vertical
Test Mode: Transmitting
Note: M2
: RBW:100kHz VBW:300kHz

Serial No.: 2UEW-35
Tester: Alan Xie

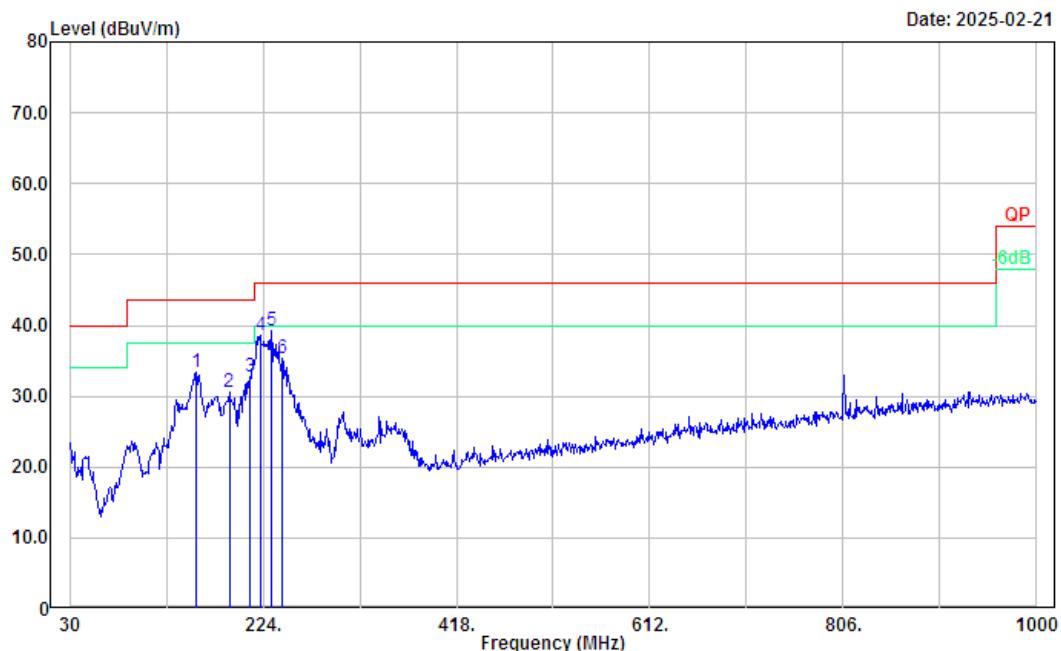


No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	34.85	39.73	-7.00	32.73	40.00	7.27	Peak
2	43.58	43.03	-12.56	30.47	40.00	9.53	QP
3	64.92	44.08	-16.49	27.59	40.00	12.41	Peak
4	127.97	38.52	-10.00	28.52	43.50	14.98	Peak
5	167.74	43.13	-11.71	31.42	43.50	12.08	Peak
6	346.22	38.19	-8.04	30.15	46.00	15.85	Peak

M3:

Project No.: 2402Z105148E-RF-A1
Polarization: Horizontal
Test Mode: Transmitting
Note: M3
: RBW:100kHz VBW:300kHz

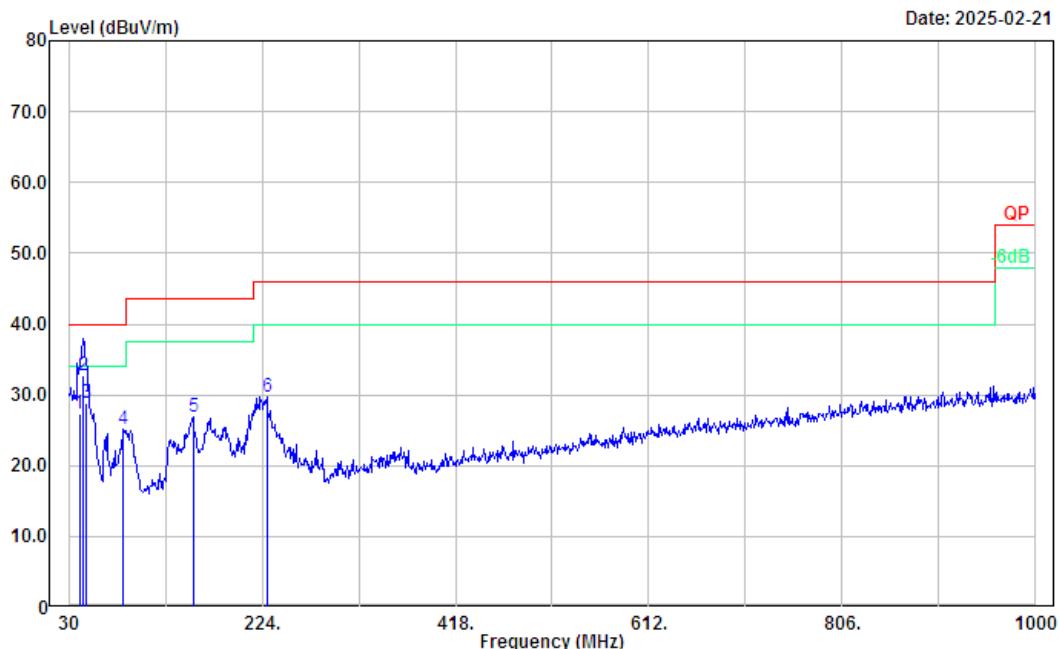
Serial No.: 2UEW-36
Tester: Alan Xie



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	157.07	44.81	-11.47	33.34	43.50	10.16	Peak
2	190.05	42.86	-12.31	30.55	43.50	12.95	Peak
3	210.42	43.83	-11.05	32.78	43.50	10.72	Peak
4	221.09	49.44	-10.94	38.50	46.00	7.50	Peak
5	231.76	50.42	-11.13	39.29	46.00	6.71	Peak
6	243.40	46.53	-11.29	35.24	46.00	10.76	Peak

Project No.: 2402Z105148E-RF-A1
Polarization: Vertical
Test Mode: Transmitting
Note: M3
: RBW:100kHz VBW:300kHz

Serial No.: 2UEW-36
Tester: Alan Xie



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	40.67	38.25	-10.97	27.28	40.00	12.72	QP
2	44.55	45.84	-13.09	32.75	40.00	7.25	QP
3	47.46	43.64	-14.87	28.77	40.00	11.23	QP
4	84.32	41.88	-16.63	25.25	40.00	14.75	Peak
5	155.13	38.46	-11.48	26.98	43.50	16.52	Peak
6	228.85	40.85	-11.09	29.76	46.00	16.24	Peak

2) 1-25GHz:

Serial Number:	2UEW-7, 2UEW-35, 2UEW-36	Test Date:	2024/11/29-2025/2/6
Test Site:	Chamber B	Test Mode:	M1-M3
Tester:	Nat Zhou, Colin Yang	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	19.7-21.1	Relative Humidity: (%)	26-41	ATM Pressure: (kPa)	101.2-102.3

Test Equipment List and Details:

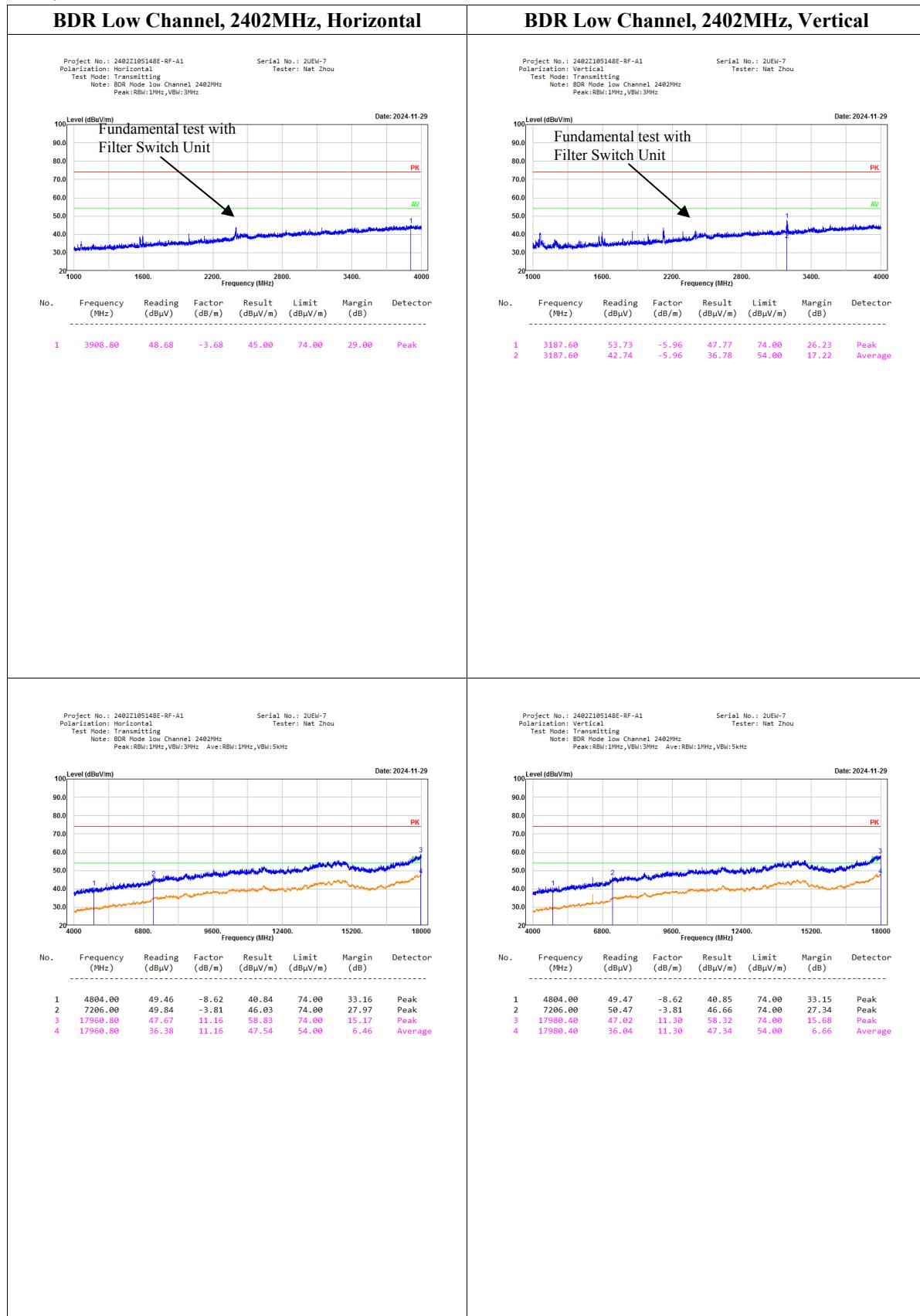
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ETS-Lindgren	Horn Antenna	3115	000 527 35	2023/9/7	2026/9/6
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2023/2/22	2026/2/21
Xinhang Macrowave	Coaxial Cable	XH750A-N/J-SMA/J-10M	20231117004 #0001	2024/11/17	2025/11/16
Xinhang Macrowave	Coaxial Cable	XH360A-2.92/J-2.92/J-6M-A	20231208001 #0001	2023/12/11	2024/12/10
Xinhang Macrowave	Coaxial Cable	XH360A-2.92/J-2.92/J-6M-A	20231208001 #0001	2024/12/9	2025/12/8
AH	Preamplifier	PAM-0118P	469	2024/4/15	2025/4/14
AH	Preamplifier	PAM-1840VH	191	2024/9/5	2025/9/4
R&S	Spectrum Analyzer	FSV40	101944	2024/9/6	2025/9/5
Audix	Test Software	E3	191218 V9	N/A	N/A
Decentest	Multiplex Switch Test Control Set & Filter Switch Unit	DT7220SCU & DT7220FCU	DC79902 & DC79905	2024/8/27	2025/8/26

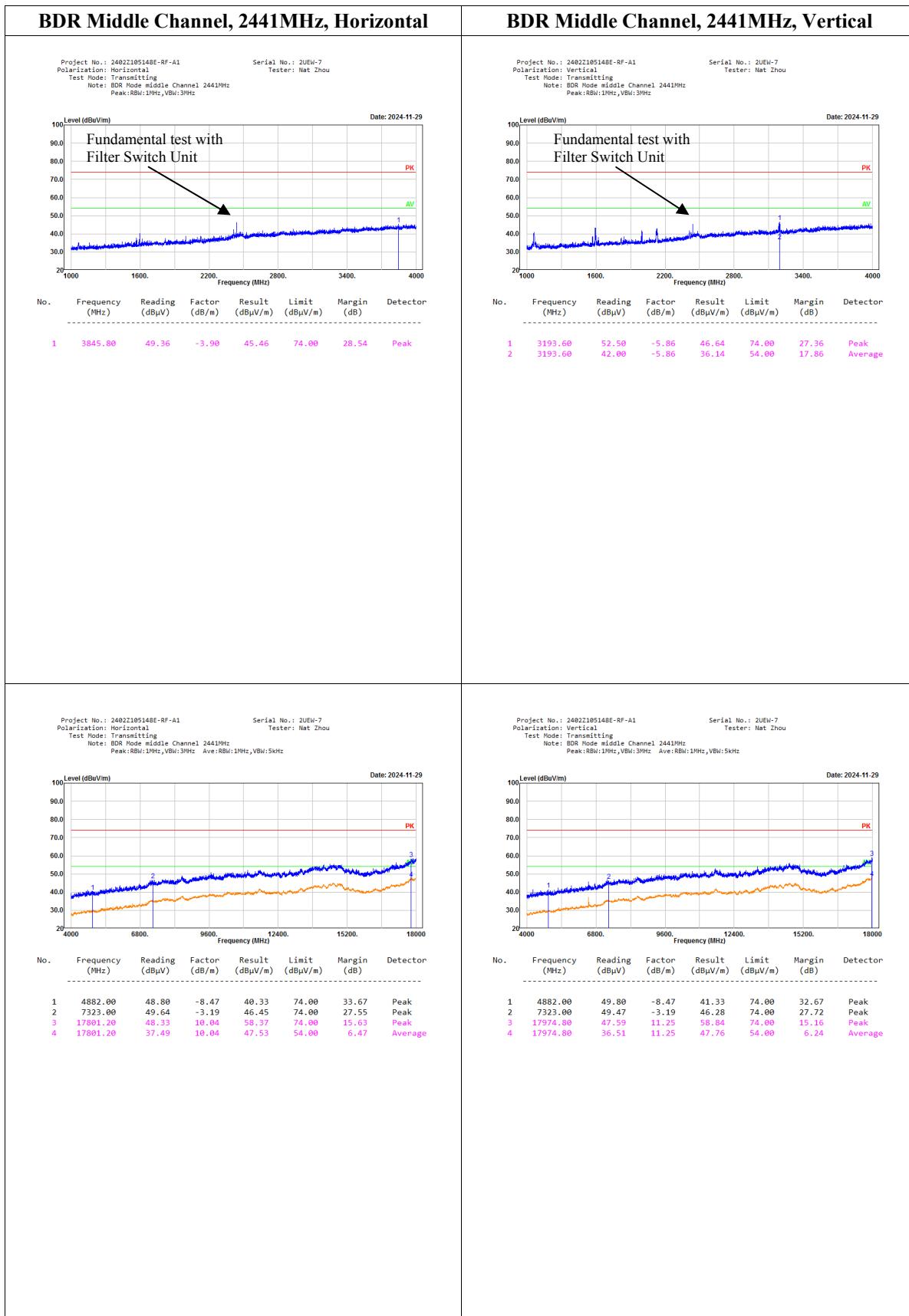
* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

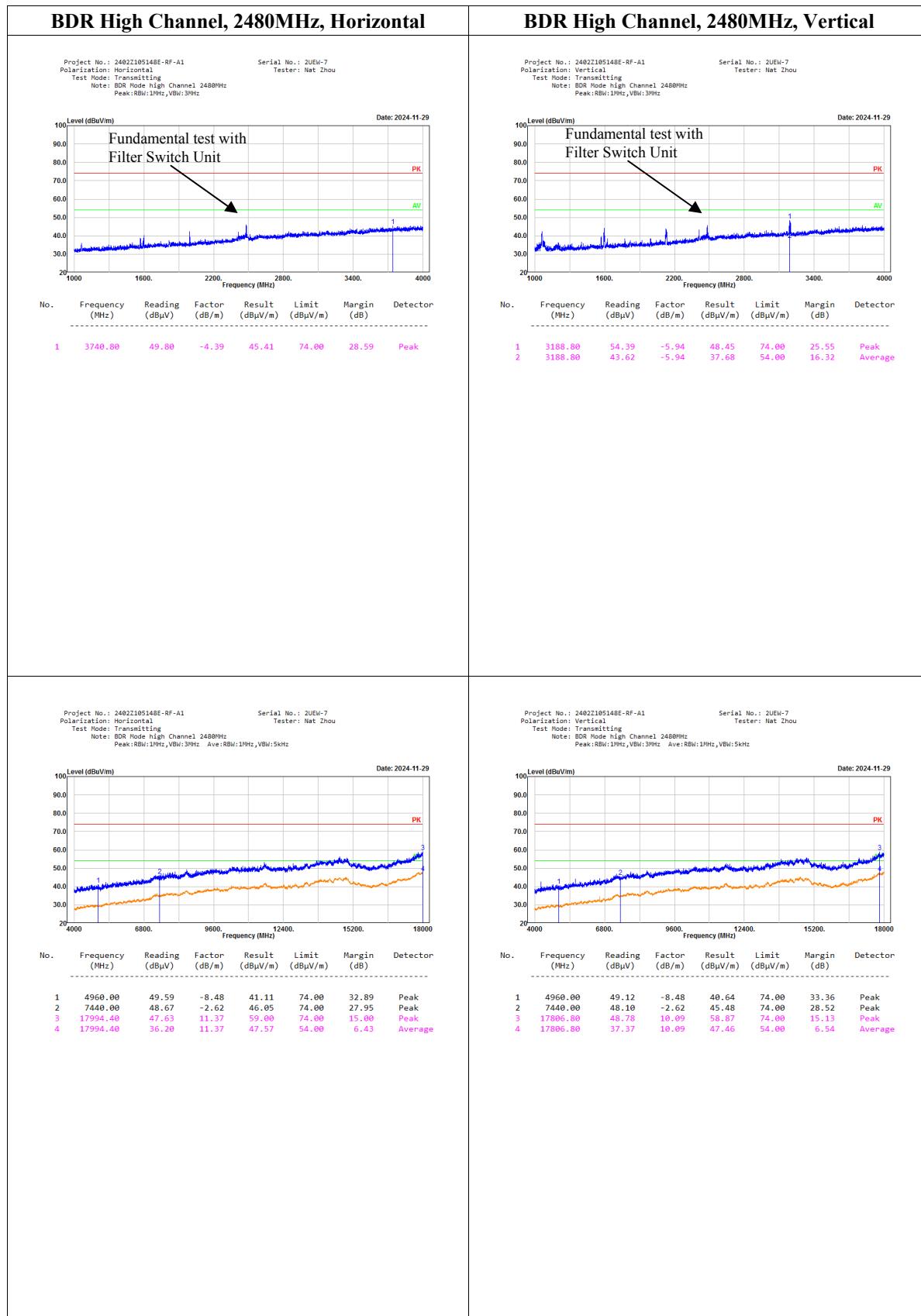
Test Data:

Please refer to the below plots.

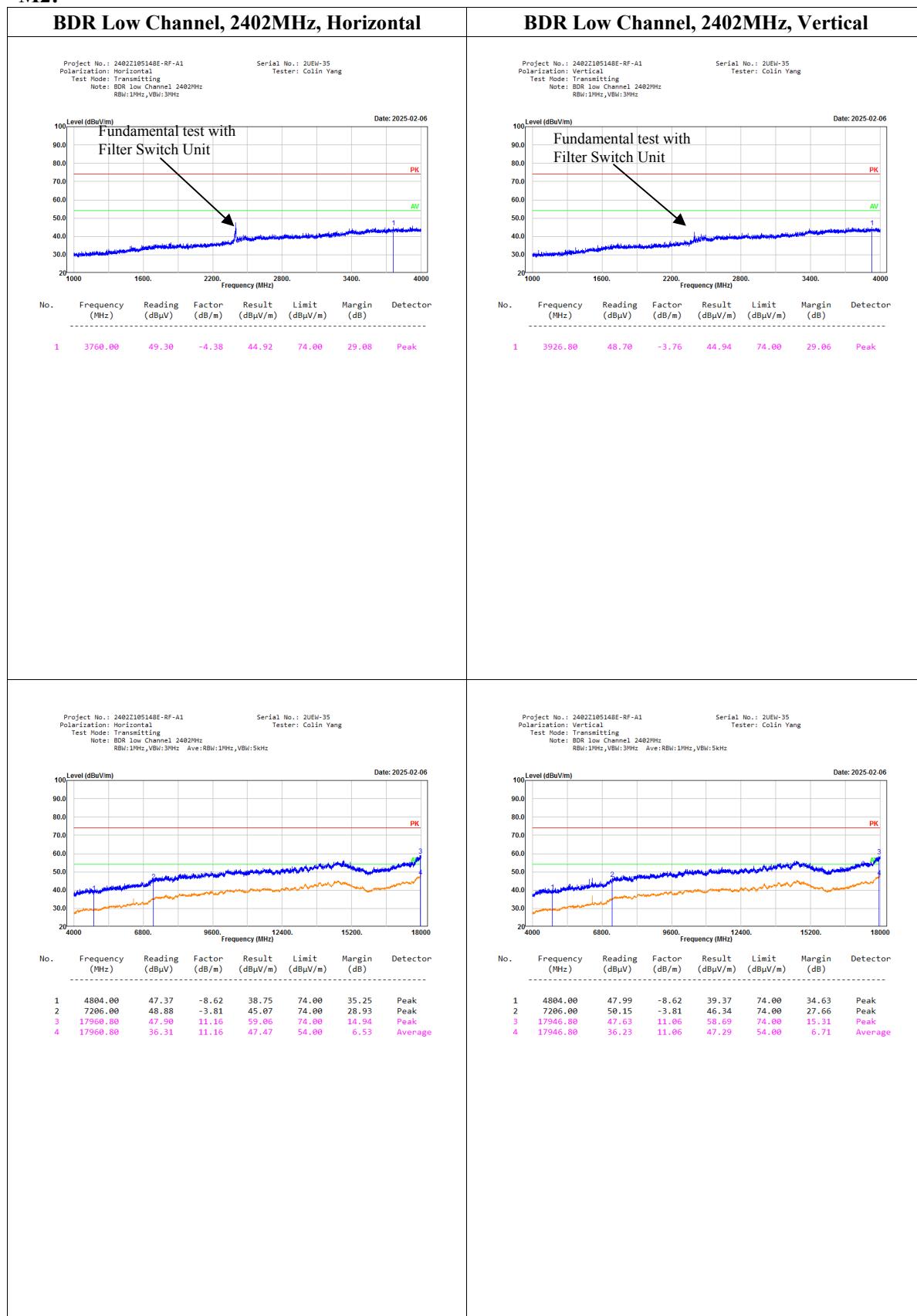
After pre-scan in the X, Y and Z axes of orientation, the worst case is refer to plots.

1~18GHz:*Note: The maximum output power mode: BDR(DH1) mode was tested.***M1:**

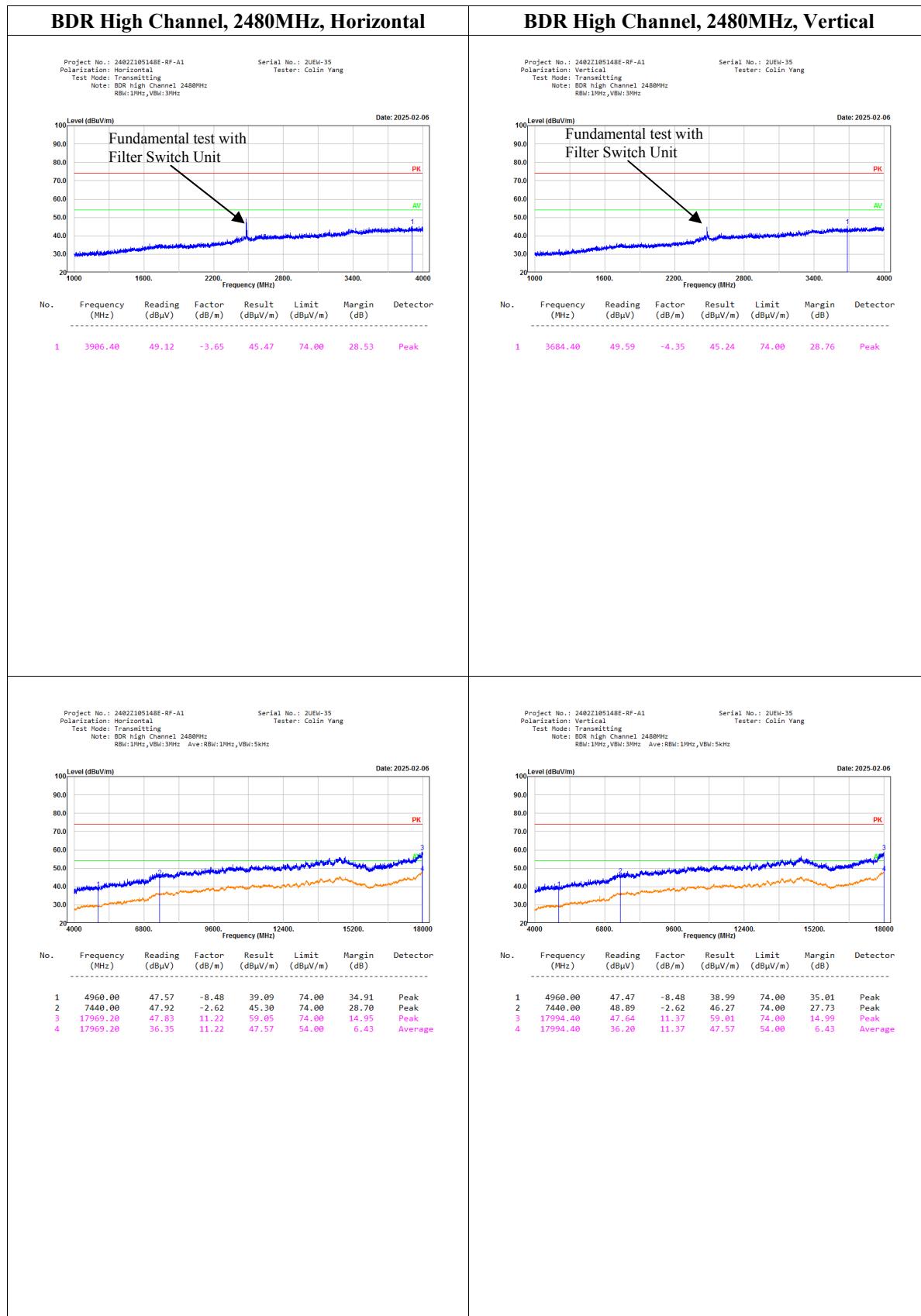




Spot check:
M2:

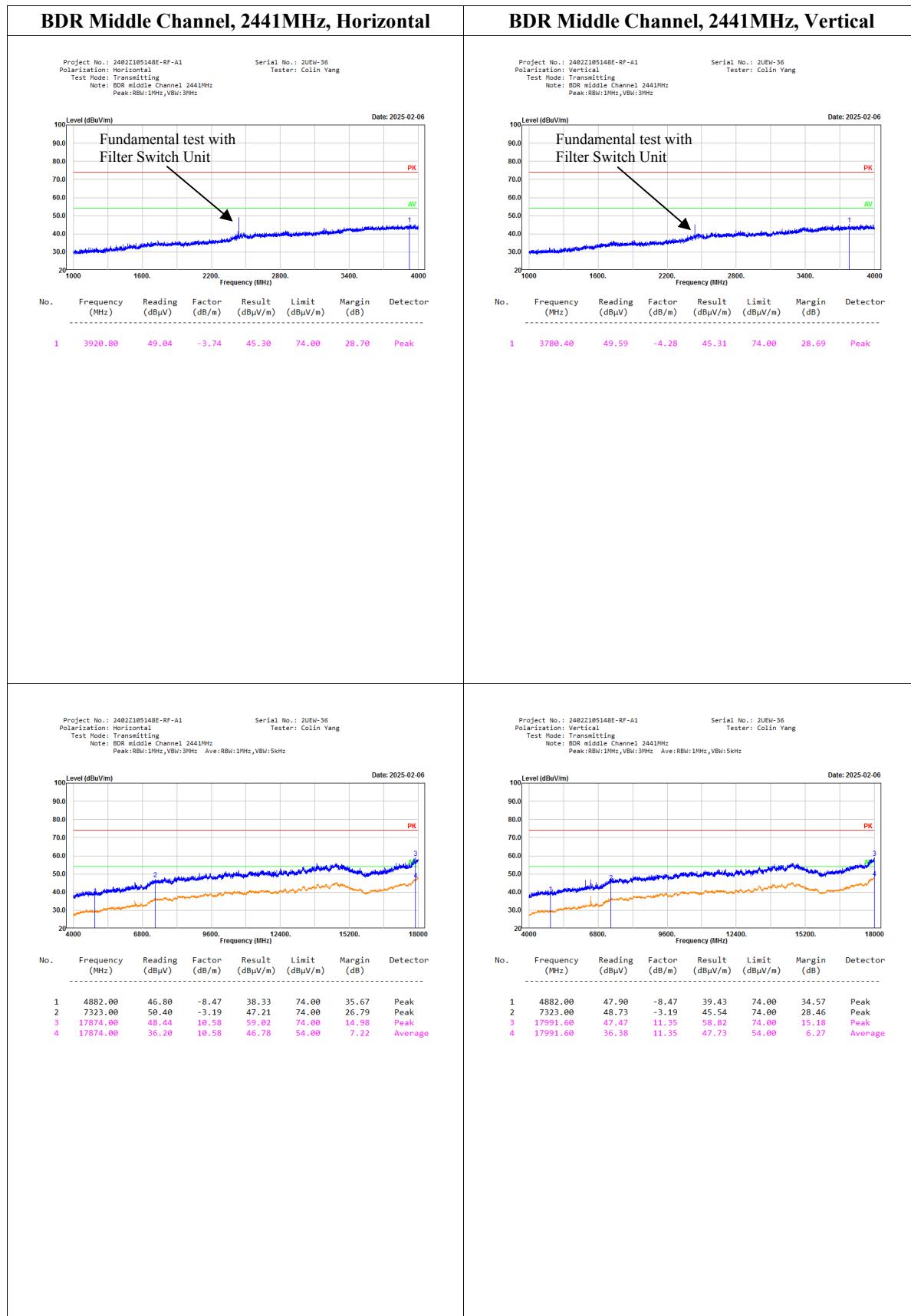


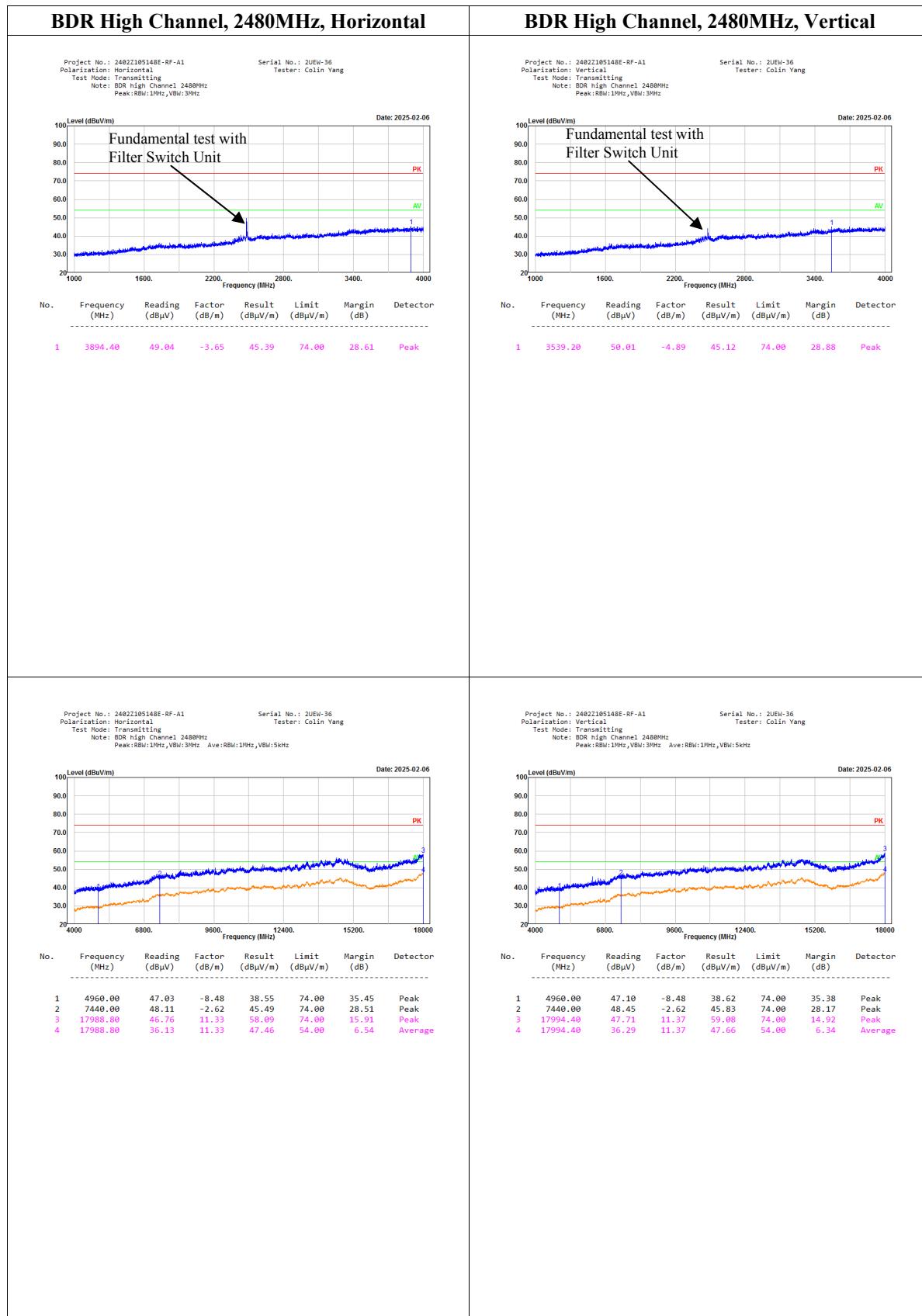




M3:

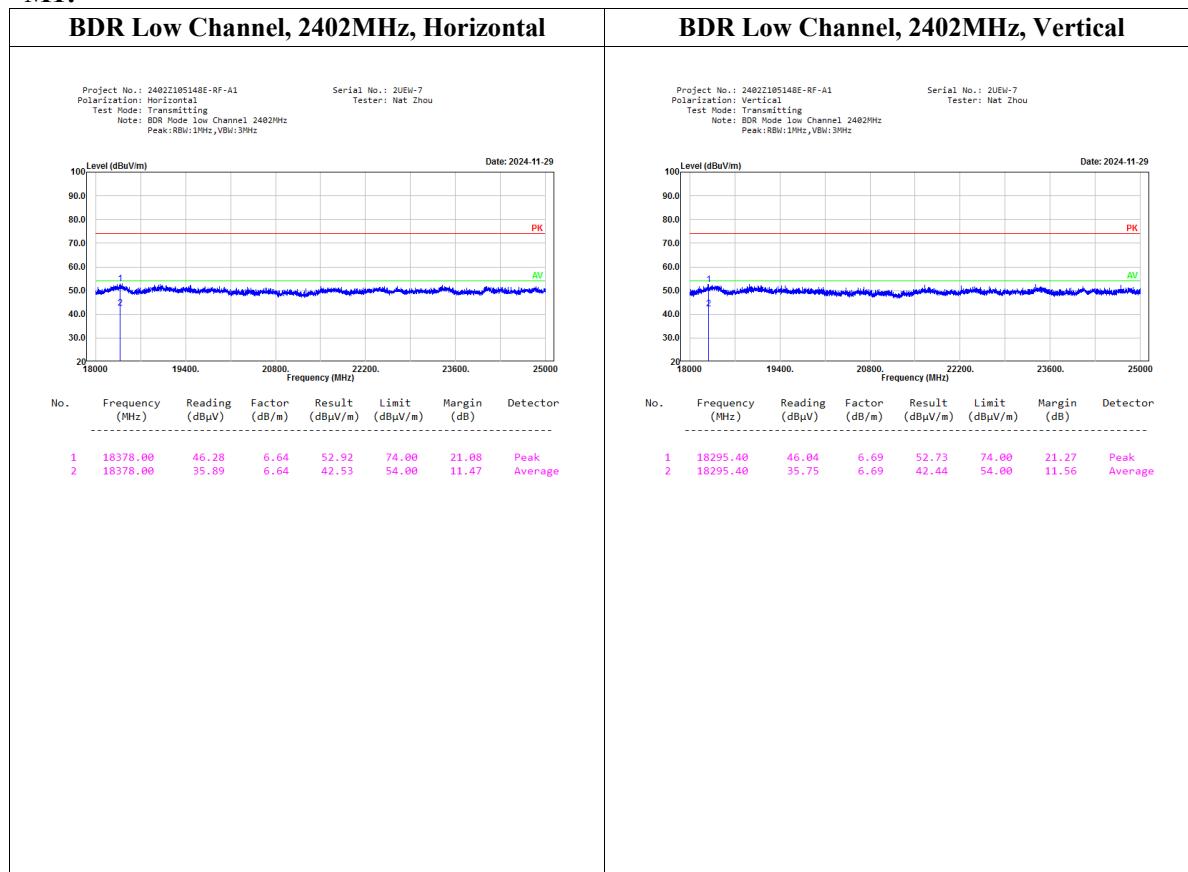




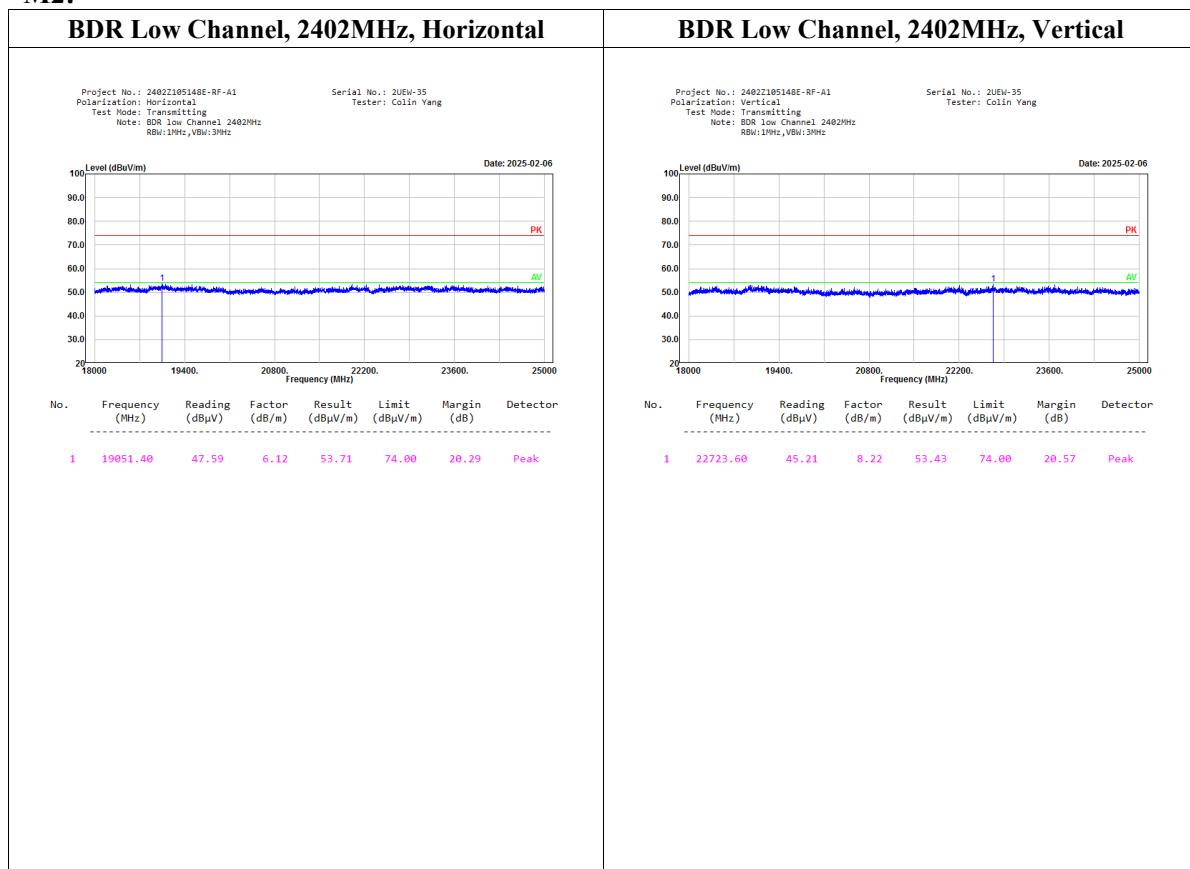


18~25GHz:

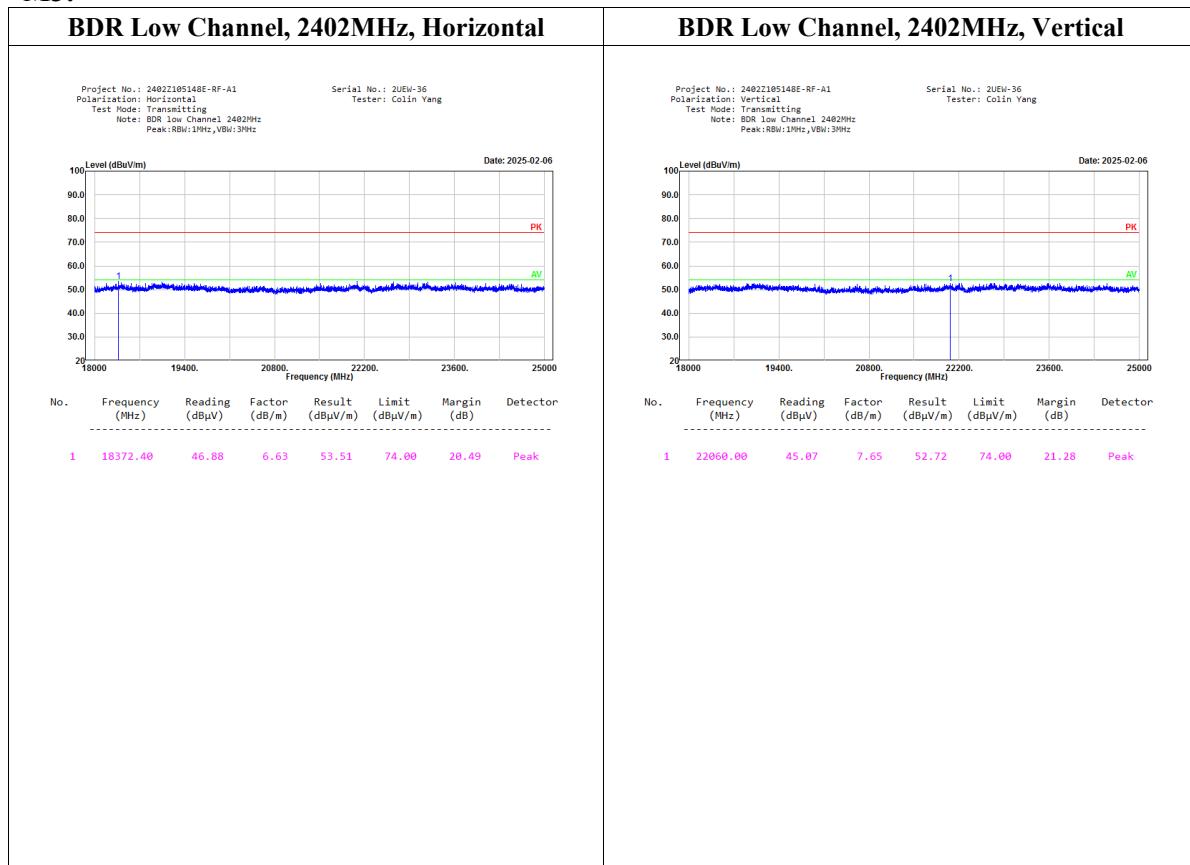
No Emission was detected in the range 18-25GHz, test was performed on the mode and channel which with the maximum power.

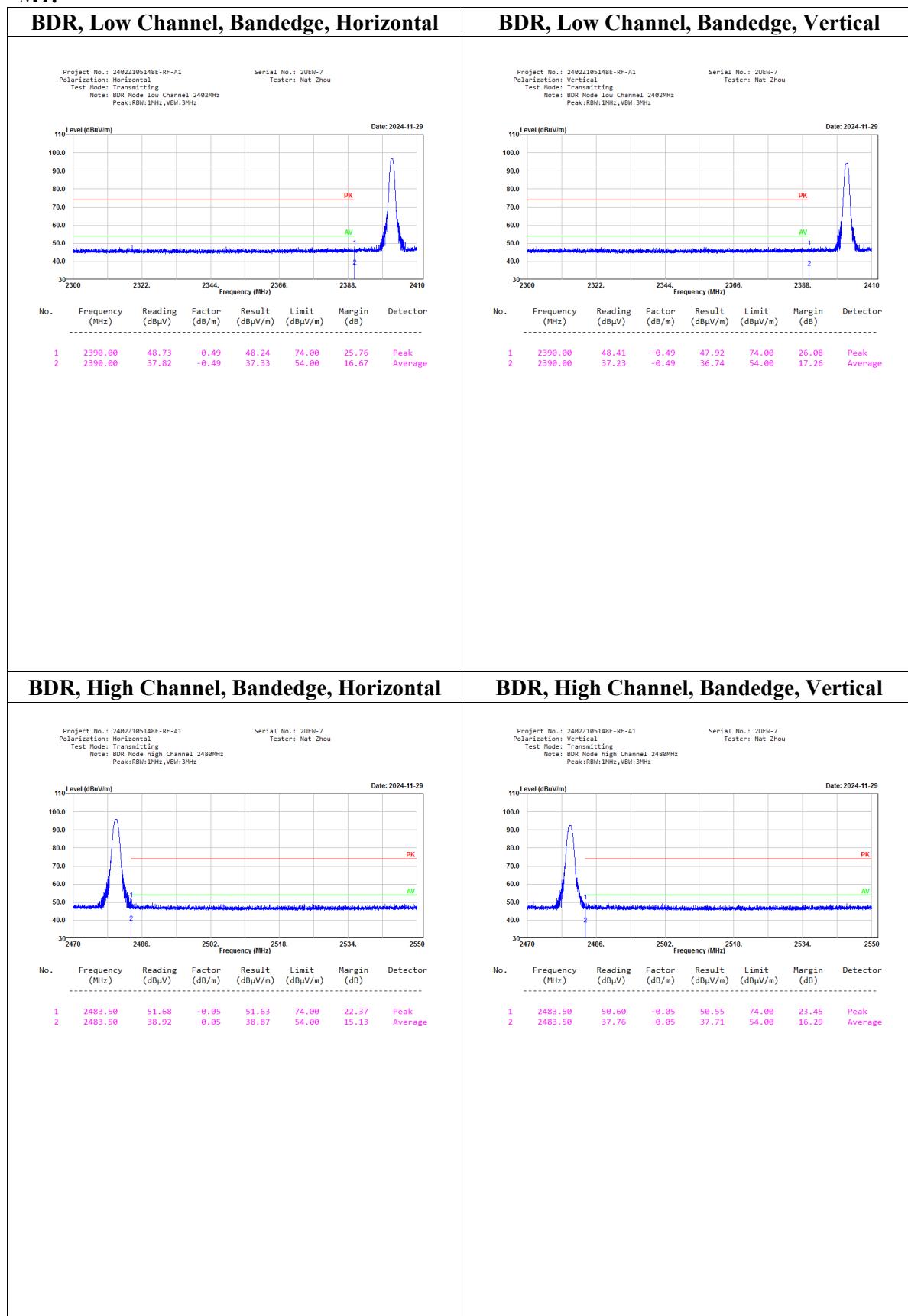
M1:

Spot check:
M2:



M3:



Test plots for Bandedge:*Note: The maximum output power mode: BDR(DH1) mode was tested.***M1:**

5.3 Spot Check With Maximum Conducted Output Power

Test Information:

Serial No.:	2UEW-21, 2UEW-22, 2UEW-24	Test Date:	2024/12/30~2025/02/12
Test Site:	RF	Test Mode:	Transmitting
Tester:	Tower Qing	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	23.5~23.8	Relative Humidity: (%)	34~55	ATM Pressure: (kPa)	101.1~102.3
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM488	2024/06/07	2025/06/06
R&S	Spectrum Analyzer	FSV40	101461	2024/09/05	2025/09/04
R&S	Spectrum Analyzer	FSV40	101589	2024/09/05	2025/09/04

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data: Configuration 5#

Mode	Channel	Result (dBm)	Limit (dBm)	Verdict
DH1	Low	10.04	21.00	Pass
	Middle	9.51	21.00	Pass
	High	7.82	21.00	Pass
2DH1	Low	9.30	21.00	Pass
	Middle	9.36	21.00	Pass
	High	7.02	21.00	Pass
3DH1	Low	9.47	21.00	Pass
	Middle	8.91	21.00	Pass
	High	7.29	21.00	Pass

Configuration 4#

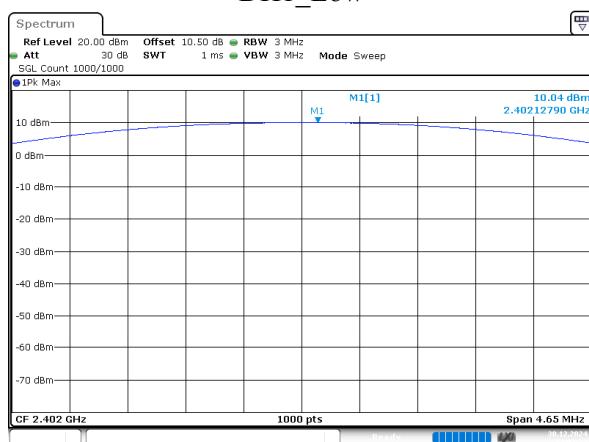
Mode	Channel	Result (dBm)	Limit (dBm)	Verdict
DH1	Low	10.07	21.00	Pass
	Middle	9.41	21.00	Pass
	High	7.76	21.00	Pass
2DH1	Low	9.26	21.00	Pass
	Middle	9.37	21.00	Pass
	High	7.10	21.00	Pass
3DH1	Low	9.46	21.00	Pass
	Middle	8.90	21.00	Pass
	High	7.28	21.00	Pass

Configuration 3#

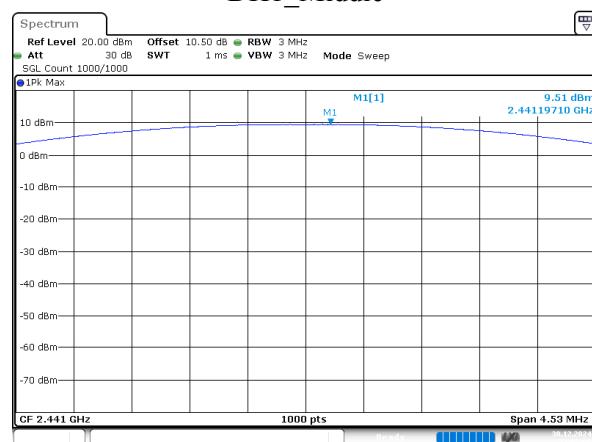
Mode	Channel	Result (dBm)	Limit (dBm)	Verdict
DH1	Low	10.05	21.00	Pass
	Middle	9.06	21.00	Pass
	High	8.07	21.00	Pass
2DH1	Low	9.31	21.00	Pass
	Middle	8.45	21.00	Pass
	High	7.07	21.00	Pass
3DH1	Low	9.96	21.00	Pass
	Middle	8.97	21.00	Pass
	High	7.59	21.00	Pass

Configuration 5#

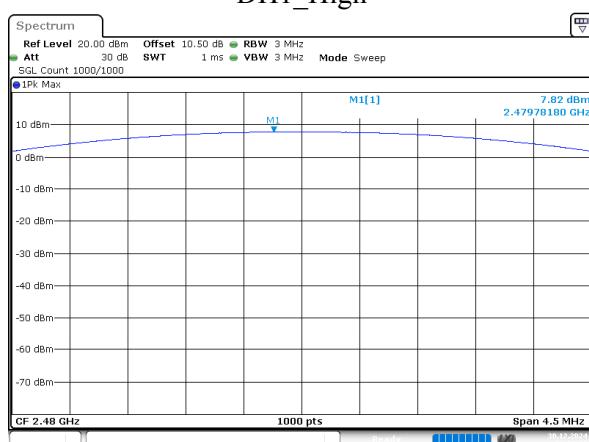
DH1_Low



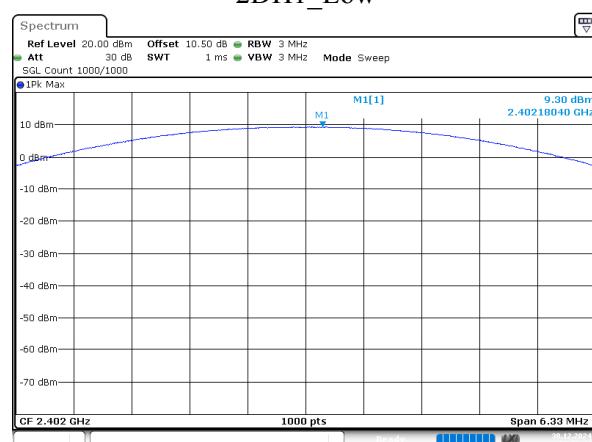
DH1_Middle



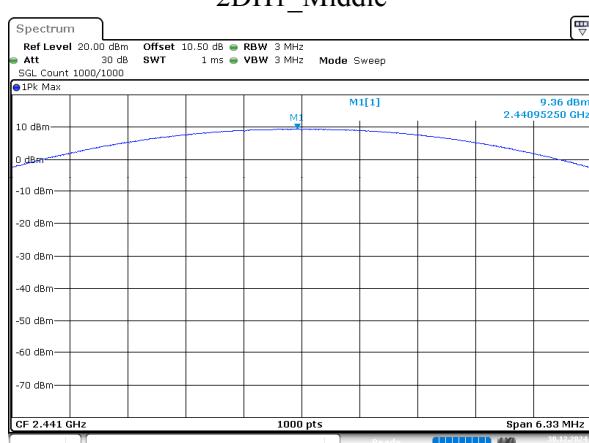
DH1_High



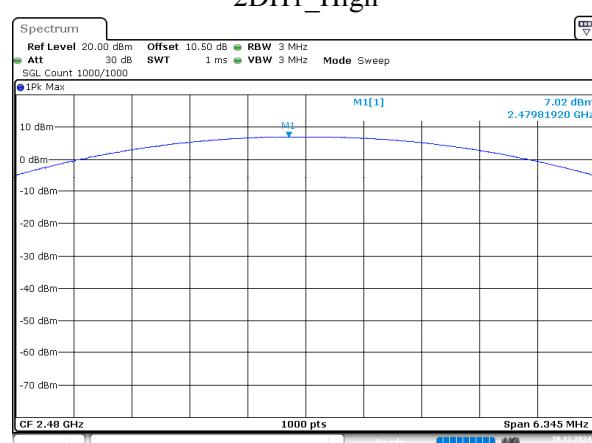
2DH1_Low



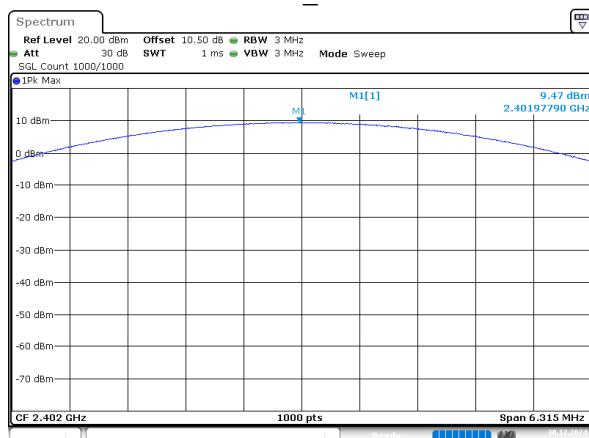
2DH1_Middle



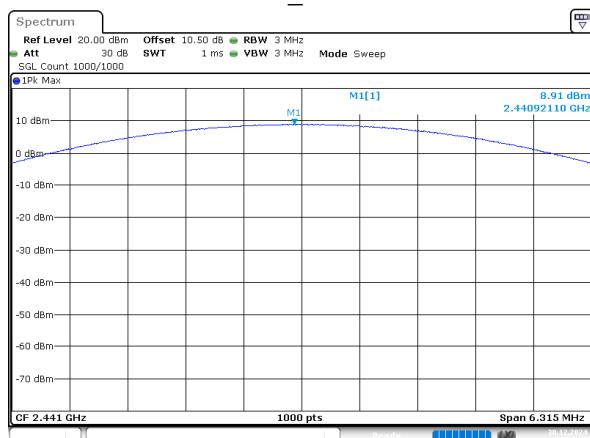
2DH1_High



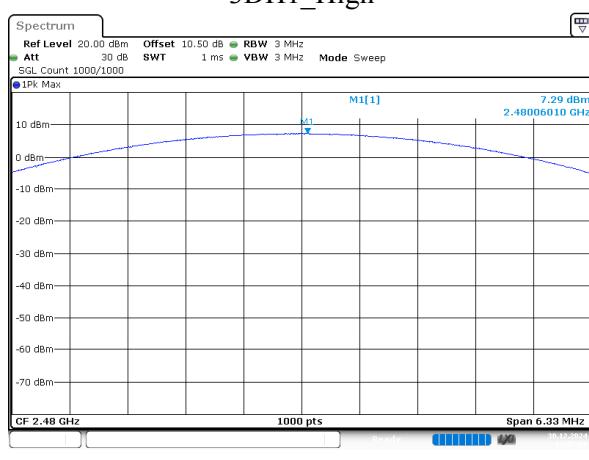
3DH1_Low



3DH1_Middle

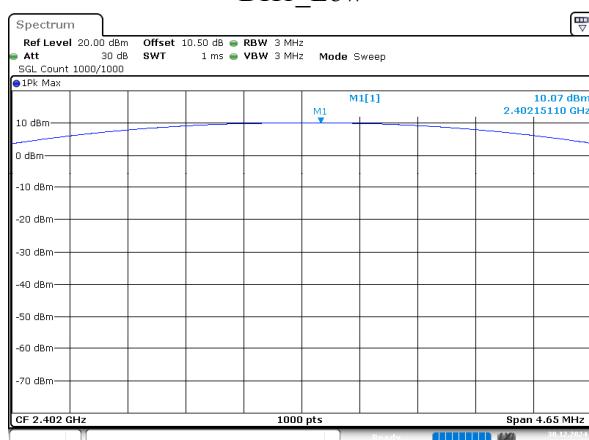


3DH1_High

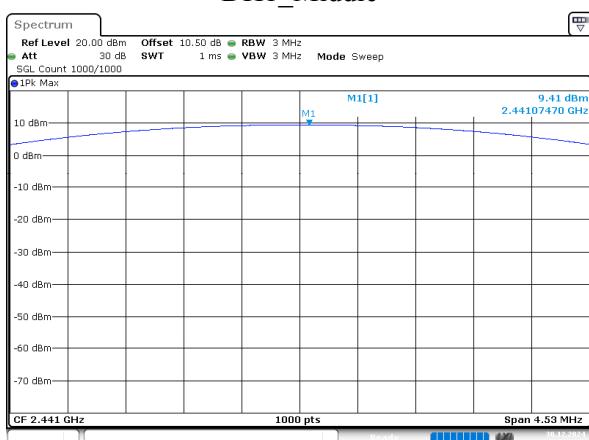


Configuration 4#

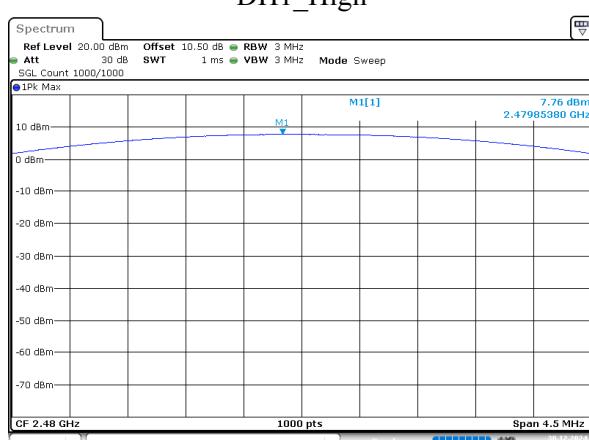
DH1_Low



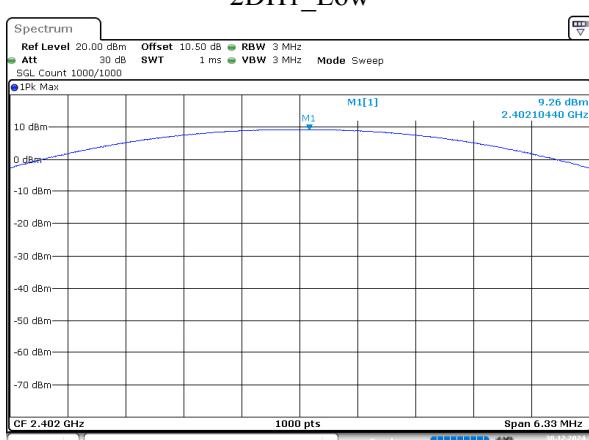
DH1_Middle



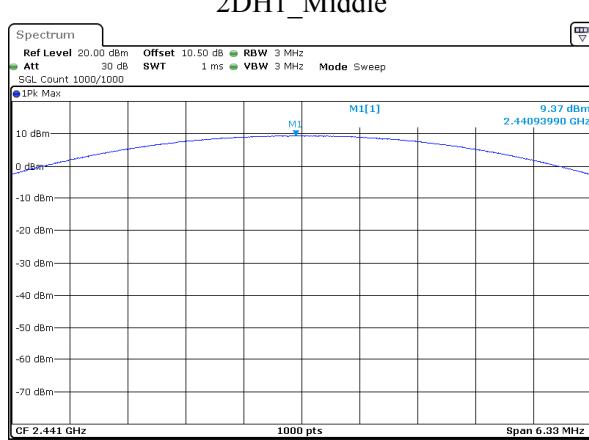
DH1_High



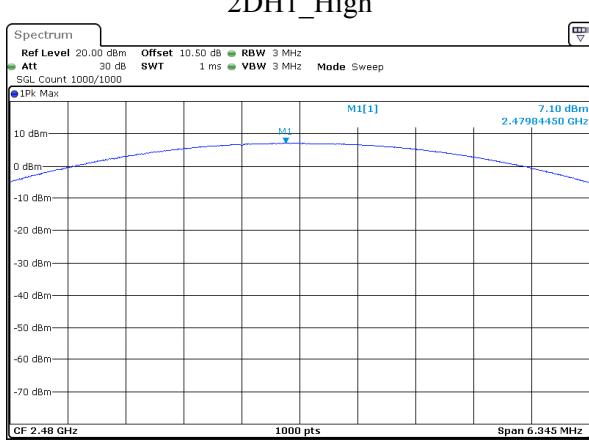
2DH1_Low



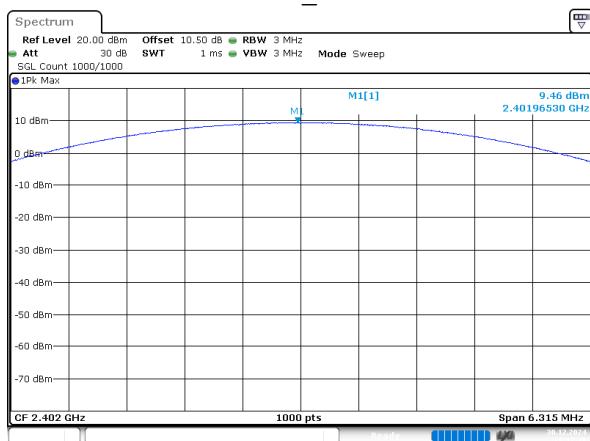
2DH1_Middle



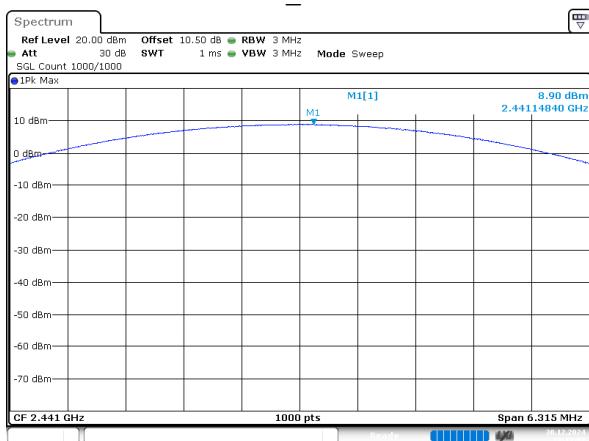
2DH1_High



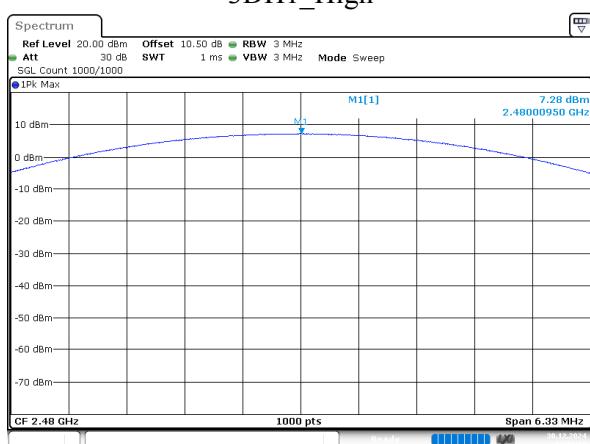
3DH1_Low



3DH1_Middle

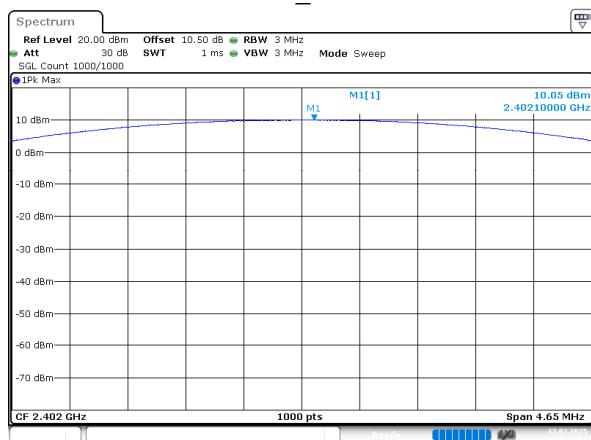


3DH1_High

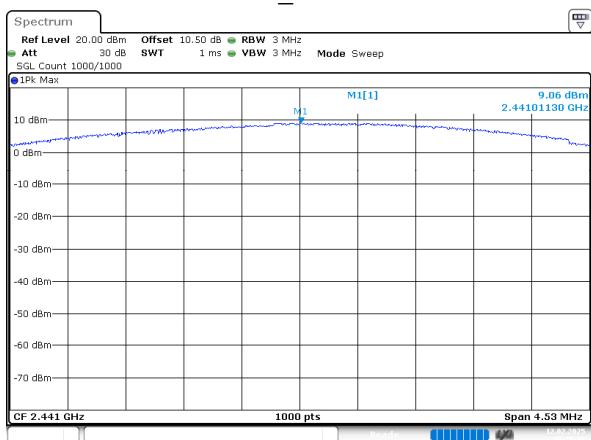


Configuration 3#

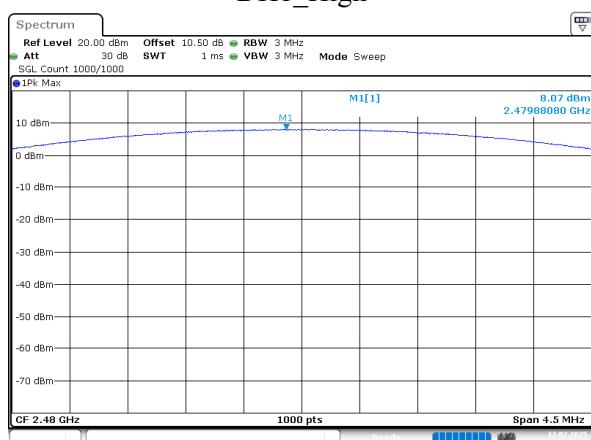
DH1_Low



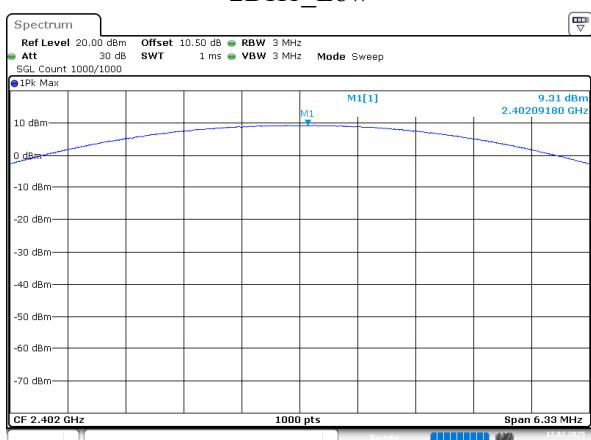
DH1_Middle



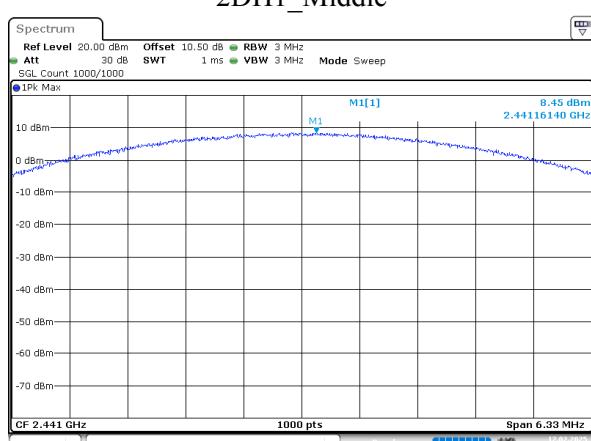
DH1_High



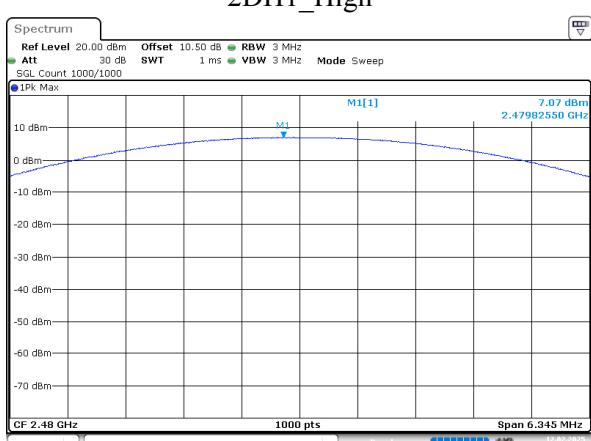
2DH1_Low



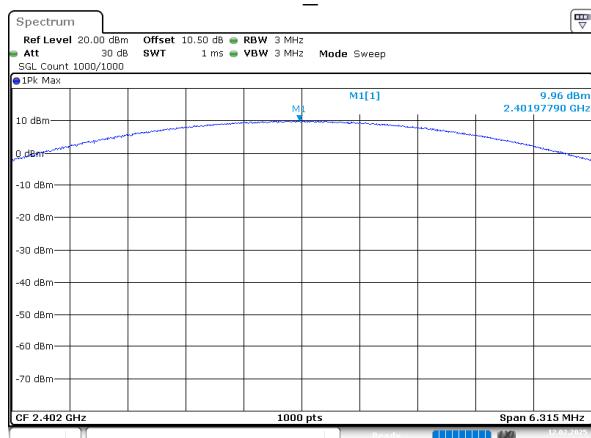
2DH1_Middle



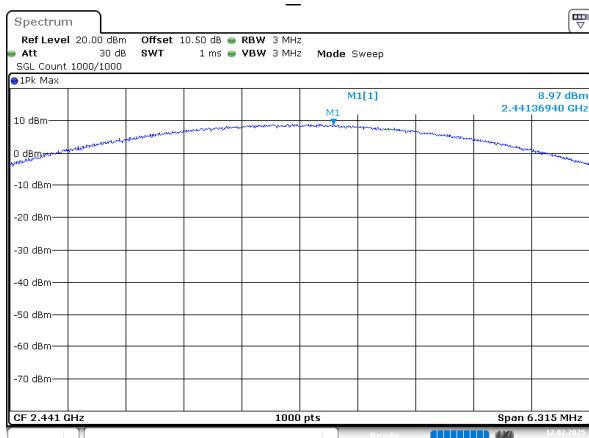
2DH1_High



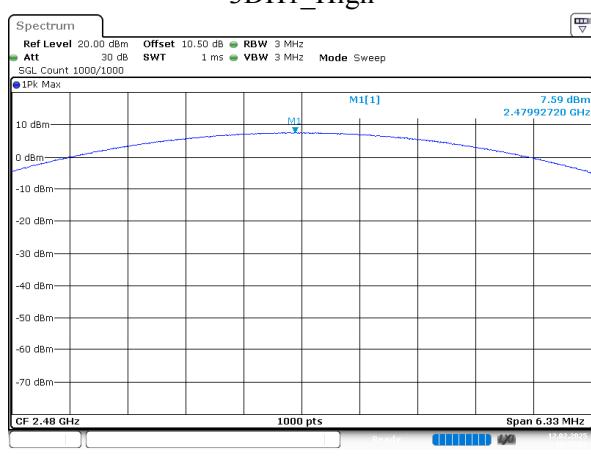
3DH1_Low



3DH1_Middle



3DH1_High

**Note:**

The Spot Check data were similar to the original data.

EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2402Z105148EA1-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2402Z105148EA1-RF-INP EUT INTERNAL PHOTOGRAPHS.

EXHIBIT B - TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2402Z105148E-RF-00AA1-TSP TEST SETUP PHOTOGRAPHS.

******* END OF REPORT *******